

Ivermectin the Miracle Medicine

By Dean L. Gano & E. J. Ledet; March 2023

During our recent and continuing study of cancer¹, we discovered some important causal relationships that include Ivermectin and Zinc and want to share these findings with you. Remember, we are simply sharing our important discoveries, not prescribing or advising any course of action.

While ivermectin has been used as a highly effective and ultra-safe medicine to treat parasites both in animals and humans for over 40 years, increasing attention is being paid to ivermectin for many other maladies. In 2013, Chinese scientists applied for an international patent that stated: 'Use of ivermectin and derivatives thereof' (Publication No.: WO/2014/059797) for new uses in the "development and manufacture of medicines for human use in treating metabolic related diseases, such as hyperglycemia, insulin resistance, hypertriglyceridemia, hypercholesterolemia, diabetes, obesity and other diseases, such as cholestasis, gallstones, non-alcohol fatty liver disease, atherosclerosis, inflammation and cancer." They would not do this, if there wasn't some evidence to support their ambitions, so we did a little sleuthing and herein is our findings.

An excellent review of Ivermectin is found in this Article: ["Ivermectin: enigmatic multifaceted 'wonder' drug continues to surprise and exceed expectations."](#) In it we learn of all the different conditions Ivermectin can treat. Here is a sample:

Anti-parasitic

Ivermectin kills the following parasitic infections.

1. [Myiasis](#)
2. Trichinosis
3. River Blindness
4. Elephantids
5. Sleeping Sickness
6. Snail Disease which is known to affect 200 million people in the world.

Anti-insecticide

Ivermectin is known to kill 84 different species of insects to include ticks and mosquitos. And if you get a bite from one of these critters, it helps the body recover from it.

1. Bedbugs
2. Scabies
3. Demodex Mites associated with Rosacea

Antiviral

1. Yellow Fever
2. Encephalitis
3. HIV
4. COVID-19

Other Diseases

1. Asthma
2. Epilepsy
3. Many neurological diseases

Anti-cancer

There is a continuously accumulating body of evidence that ivermectin may have substantial value in the treatment of a variety of cancers.

The avermectins are known to possess very good antitumor activity² as well as the ability to increase antitumor activity in some carcinomas, melanomas and lymphoid leukemia.³

Over the past few years, there have been steadily increasing studies that say ivermectin exhibits both anti-cancer and anti-cancer stem cell properties. So, let's look at a few of these studies to see what we can learn.

In one study they found that in ovarian cancer and [neurofibromatosis type 2](#) (NF2) tumor cell lines, high-dose ivermectin inactivates the protein enzyme PAK1 and blocks PAK1-dependent growth. PAK1 has been implicated in tumor creation while blocking PAK1 causes tumor cell death. Since they implicated the PAK1 enzyme, we did more research and found that this PAK1 enzyme is essential for the growth of more than 70% of all human cancers, including breast, prostate, pancreatic, colon, gastric, lung, cervical and thyroid cancers, as well as hepatoma, glioma, melanoma, multiple myeloma and for neurofibromatosis tumors.⁴

In another study of Esophageal squamous cell carcinoma,⁵ ivermectin suppressed the cell growth, cell migration and cell invasion through down-regulation of the PAK1 enzyme. It also induced cancer cell death by manipulating the mitochondria. See Figure 1 below where we see ivermectin helps the cell generate more Reactive Oxygen Species (ROS) in the same way many chemotherapy drugs do and thus kill the cancer cells. Increasing the ROS causes the mitochondria (cell powerhouse) to generate a protein called Cytochrome c which then initiates the process of apoptosis (cell death) and thus killing of the cancerous cells.

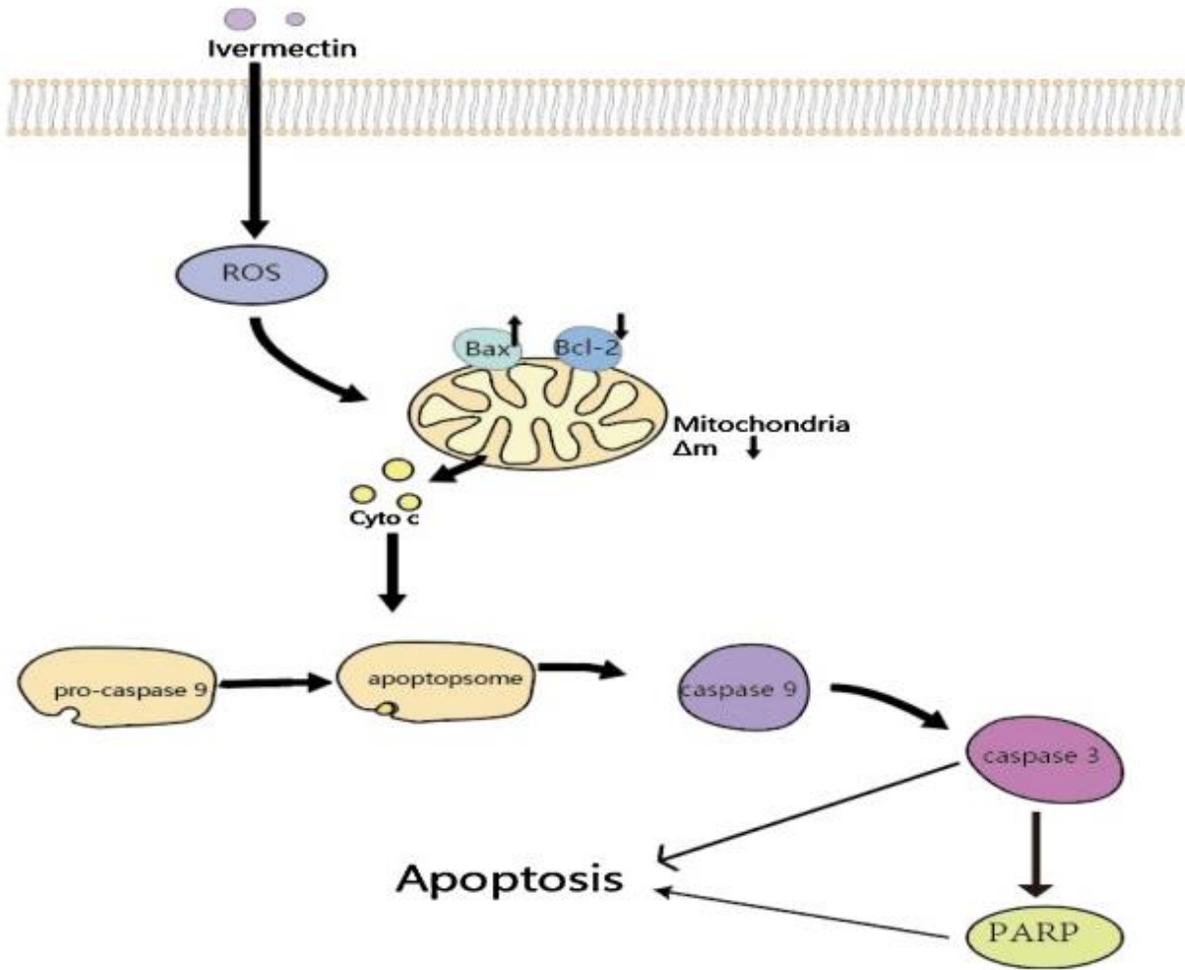


Figure 1: Mechanisms of Cell Death from Ivermectin⁹

Figure 2 below provides a graph of how well ivermectin is at reducing the size of these cancerous tumors.

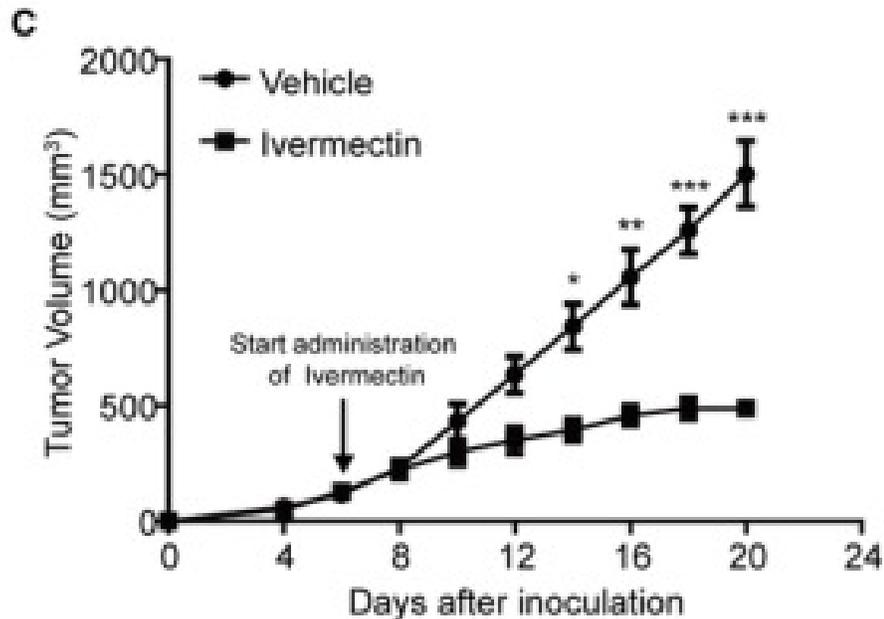


Figure 2: Comparison of tumor volume with IVM & Placebo (Vehicle)

Further searching found many more studies that show how effective ivermectin is in fighting cancers of all kinds. Here is just a small sample of what we found:

1. "The antiparasitic agent ivermectin induces chloride-dependent membrane hyperpolarization and cell death in leukemia cells." *ASH Publication*, 2010.⁶
2. "Common Anti-Parasitic Agent Eases Motor Symptoms, Aids Remyelination in MS Mouse Model." *Multiple Sclerosis News Today*, 2018.⁷
3. "Ivermectin Attenuates CCl₄-Induced Liver Fibrosis in Mice by Suppressing Hepatic Stellate Cell Activation." *International Journal of Molecular Science*, 2022⁸
4. "Ivermectin's Role in treating Breast cancer, Digestive System, Urinary System, Reproductive System, Respiratory System cancers and Leukemia, Melanoma and Glioma" (brain cancer).⁹
5. "Integrated analysis reveals FOXA1 and Ku70/Ku80 as targets of ivermectin in prostate cancer."¹⁰
6. "In ovarian cancer, ivermectin can block the cell cycle and induce cell apoptosis through a Karyopherin- β 1 (KPNB1) related mechanism."¹¹

If you want the details of these studies for a specific cancer open the link in the endnotes. Also, as you can see in Table 1 ivermectin works in many different ways to stop or inhibit various kinds of cancers. Here is a summary of the antitumor effects of ivermectin we found in a 2018 PubMed paper titled: "The multitargeted drug ivermectin: from an antiparasitic agent to a repositioned cancer drug."¹²

Tumor Type	Effects
Leukemia	Induces Cancer Cell Death through increased ROS
Brain Cancer	Inhibits cell growth and blood vessel formation, Induces cell death
Ovarian Cancer	Inhibits cancer cell growth
Breast Cancer	Inhibits cancer cell growth and stimulates new healthy cells
Melanoma	Inhibits cancer cell growth
Colon Cancer	Induces Cancer Cell Death through increased ROS
Cervical Cancer	Induces Cancer Cell Death

Table 1: Ivermectin's Effects on Various Cancers

We also found that just like preventing a coronavirus infection, both zinc and ivermectin work together to stop cancer cells from growing.¹³ Zinc is the bullet and ivermectin is the gun that delivers the payload. That is to say, zinc ensures the cells work properly and it gets into the cell by attaching to an ionophore, which means a metal ion transfer molecule, like Vitamin D and the king of all ionophores; ivermectin.

The mechanism for this is found when we look at how healthy cells stay healthy and what causes them to fail. Normal healthy cells are constantly passing different molecules like proteins and enzymes across the cell boundary to ensure they function as designed. One of the key cellular processes is called proteolysis, which is the breakdown of proteins into smaller molecules used by the cell. These cellular processes include [apoptosis](#) (programmed cell death),^{14,15} as well as preventing the accumulation of unwanted or misfolded proteins in cells, which can lead to cancer.

So, as you would expect, any abnormality in the regulation of proteolysis can cause disease. There are 84 protease families and just like people they are not all friendly, especially if cancerous cells are present. It seems that cancer cells can produce protein/protease enzyme inhibitors that block the natural human protein ionophores from doing their job of transferring zinc across the cell membrane.¹⁶ So, to counter these cancer or viral protease enzymes, it is necessary to use **non**-protein zinc ionophores like Vitamin D or Ivermectin to help transport zinc across infected human cell membranes for DNA/RNA synthesis, immune regulation, and cellular organization.

As we learned in "[Zinc, The Key to Good Health](#)" it is used in over 300 cellular functions, so it is critical to good health. Now we know from these additional [12 PubMed scientific papers](#) that zinc also works to fight¹⁷ many cancers. An interesting correlation here is that just as the human body begins to lose its blood serum zinc content at about 40-years-old, the incidence in cancer begins to rise.

Also, as we learned in our paper titled: [COVID-19 and Real Science](#), Zinc deficiencies are involved in the following diseases:

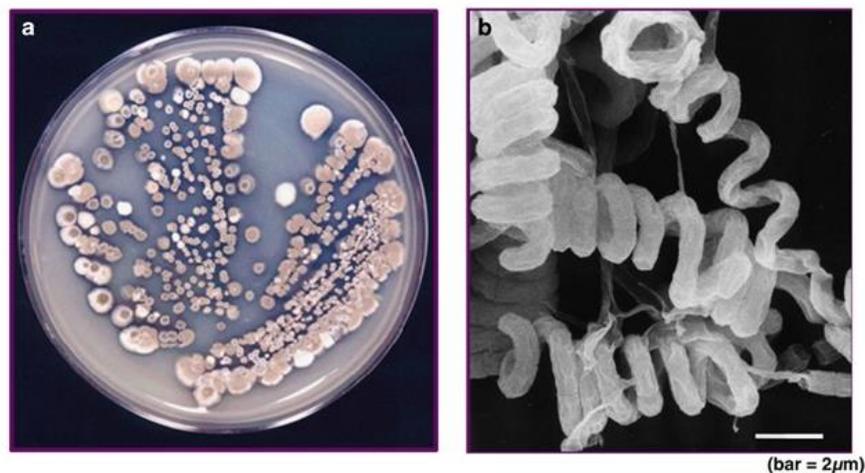
1. Cancer
2. Chronic Kidney Disease
3. Chronic Obstructive Pulmonary Disease
4. Low Immune Health

5. Obesity
6. Coronary Artery Disease
7. Sickle Cell Disease
8. Type 2 Diabetes
9. Asthma
10. Dementia
11. Cardiovascular Diseases
12. Cystic Fibrosis
13. Liver Diseases
14. Type 1 Diabetes
15. Thalassemia (A Blood Disorder)

Since we now know zinc and ivermectin can help prevent and even cure some cancers, the question becomes: 'What dosage is needed?'

Ivermectin Dosing

In a January 2020 study of high-dose ivermectin,¹⁸ a limited number of healthy volunteers received doses up to 1mg/1.1 pounds of weight, (10 times the recommended dose) and it was well tolerated. Unlike so many medicines produced by Big Pharma, ivermectin is not a pharmaceutical synthetic drug, but rather originates from a single microbe originally found in the soil of a golf course in Japan in 1973. Being from a natural source, probably explains why it has little to no side effects commonly found in so many pharmaceutical drugs. See Figure 3 below:



S. avermitilis, sole source of the avermectins: (a) colony and (b) photomicrograph. (Photo credits: Kitasato Institute).

Figure 3: Ivermectin derived from Avermectins

Given the safety of IVM and how well it works to fight inflammation, Dean decided to see if it would work to reduce the inflammation in his hands from arthritis. He increased his antiviral dose from 18mg/week to 12mg three times a week. Three months into this routine, he went to his arthritis doctor and he asked if Dean was taking the cancer-causing medication, he had prescribed in December, and he said, "NO, I'm taking

ivermectin.” The doctor said, “OK, let’s look at your inflammation numbers” and when he pulled up the blood tests which measure inflammation molecules, they had gone from 45 last summer to 6 in March. His finger joints continue to reduce in size and the pain is much less.

For an antiviral infection, the daily *max dose* of ivermectin is three doses of up to 600 µg/kg (0.6mg/2lbs.) on 3 consecutive days. That’s a dose of 55mg/day for a 190-pound man, so the 12mg, 3 times a week Dean is taking is more than safe and it works for arthritis.

For more details about ivermectin as an antiviral and weekly dosages read [Ivermectin or Vaccines? Which is Better?](#)

Safety and pharmacokinetics of ivermectin, administered in higher and/or more frequent doses than currently approved for human use, were evaluated in a double-blind, placebo-controlled, dose escalation study.¹⁹ Sixty-eight people were assigned to one of four panels (3:1, ivermectin/placebo): 30 or 60 mg (three times a week) and 90 or 120 mg (single dose). Safety assessments addressed both known ivermectin Central Nervous System (CNS) effects and general toxicity. Ivermectin was generally well tolerated, with no indication of associated CNS toxicity for doses up to 10 times the highest FDA-approved dose of 200 microg/kg. Adverse experiences were similar between ivermectin and placebo and did not increase with dose. This study demonstrated that ivermectin is generally well tolerated at these higher doses and more frequent regimens.

In another study²⁰ they found that a 12mg/dose twice a week helped cure a 53-year-old male of lung cancer.

The bottom line on ivermectin dosing is that while we don’t have any clear advice from the doctors/scientists, we can all do our own risks/benefits evaluation and be safe.

Conclusion:

If you want to learn more about a particular malady discussed herein, we encourage you to read any or all of the 30+ references we have used to prepare this synopsis. Also, if you want a reliable and inexpensive source of ivermectin, read the Addendum provided herein.

But the big question becomes why isn’t this important information at the top of the news? Well, DUH! Big Pharma wants you sick so you need their chemicals, and besides, they can’t make any money on generic drugs like ivermectin that costs pennies a pill. They make more money each year than all the other businesses in the world combined, so they are able to control the world narrative knowing the [Sheeple](#) will follow because they have been doing so for many years. They own the NIH, CDC, all the medical universities, corporate media, etc., so we can only fight them by doing our own research on any given subject. Which is what we do here at [Effective Thinking](#).

For more details of these lies from Big Pharma and our government see:
[Lies, Lies, and More Lies](#)
[Crimes Against Humanity](#)
[“Misinformation” or Lies?](#)

Addendum Sources of Ivermectin

To order Ivermectin or other normal medicines, contact my friend Ravi at medsimpportexport@gmail.com Use his name when you compose your email and use my name as a reference. For Example: Ravi, I am a friend of Dean Gano and he said you could provide Ivermectin for me?

He is honest and very helpful. Ask him anything.

It is perfectly legal to buy common medicines from overseas, as long as the quantities are reasonable and Ravi knows what the limits are, so he only ships in small packages. Here are the basic US government rules:

- There is no commercialization or promotion of the drug to U.S. residents;
- The drug is considered not to represent an unreasonable risk;
- Generally, not more than a 3-month supply of the drug is imported.

Payment for meds is thru an online money exchange called Wise: wise.com/login
It is very easy to use. You need to set up an account and can pay using many different money sources. Ravi can help you if needed – just ask him.

Below is a typical order. Note: Because IVM dosing is weight dependent this order allows for everyone in the family to get the right dose. There are lots of different brands, but I have vetted Iverjohn’s quality control system and have total trust in them, so always specify Iverjohn Ivermectin. They are mostly a British company operating in India. Prices may vary a little, but this gives you an idea.

Iverjohn Ivermectin Order

600 ea. of the 12mg Tablets

: \$0.90 USD per strip of 10 tablets

: \$0.90 x 60 strips

: \$54 USD.

500 ea. of the 6mg Tablets

: \$0.90 USD per strip of 10 tablets

: \$0.90 x 50 strips

: \$45 USD.

400 ea. of the 3mg tablets

: \$0.80 USD per strip of 10 tablets

: \$0.80 x 40 strips

: \$32 USD.

+ Shipping charges: \$45 USD.

Total: \$176 USD.

Shipping takes about 3-weeks plus or minus a week.

Also, if you are wondering about the quality, know that 40% of all generic meds sold in the US come from India and they and China make most of the Ivermectin in the world.

¹ <https://factcheckedorg.files.wordpress.com/2023/02/cancer.r6.4.2.pdf>

² <https://www.nature.com/articles/ja2017111#ref-CR107>

³ <https://www.nature.com/articles/ja2017111#ref-CR108>

⁴ <https://www.nature.com/articles/ja2017111#ref-CR110>

⁵ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7205794/>

⁶ <https://ashpublications.org/blood/article/116/18/3593/27970/The-antiparasitic-agent-ivermectin-induces>

⁷ <https://multiplesclerosisnewstoday.com/2018/07/13/anti-parasitic-agent-eases-ms-motor-symptoms-aid-remyelination-in-ms-mice/>

⁸ <https://www.mdpi.com/1422-0067/23/24/16043>

⁹ <https://www.sciencedirect.com/science/article/pii/S1043661820315152>

¹⁰ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9436997/>

¹¹ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5584430/>

¹² <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5835698/>

¹³ <https://pubmed.ncbi.nlm.nih.gov/28928244/>

¹⁴ <https://pubmed.ncbi.nlm.nih.gov/27998772/>

¹⁵ <https://pubmed.ncbi.nlm.nih.gov/16624386/>

¹⁶ <https://fact-checked.org/the-best-defense-is-a-proactive-offense/>

¹⁷ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7476080/>

¹⁸ <https://academic.oup.com/jac/article/75/4/827/5710696?login=false>

¹⁹ <https://pubmed.ncbi.nlm.nih.gov/12362927/>

²⁰ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8898092/>