

# Fenbendazole (Panacur or Safe-Guard)

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Fenbendazole is a drug used primarily as an antiparasitic for animals. Its main use is to kill worms, such as hookworms, roundworms, tapeworms and whipworms.

However, several studies have hinted that Fenbendazole also has anticancer properties. The drug, known under brand names like Panacur and Safe-Guard, has been successfully used to treat different forms of cancer, including: pancreatic cancer, prostate cancer, breast cancer, colorectal cancer, lung cancer, colon cancer, melanoma, lymphoma and glioblastoma.

Fenbendazole was also found to be effective at treating infections caused by *Cryptococcus neoformans*, an encapsulated fungus that causes meningoencephalitis in immunocompromised hosts. According to a 2018 article from Nature: “Fenbendazole acts as a moderate microtubule destabilizing agent and causes cancer cell death by modulating multiple cellular pathways. The results, in conjunction with our earlier data, suggest that Fenbendazole is a new microtubule interfering agent that displays anti-neoplastic activity and may be evaluated as a potential therapeutic agent because of its effect on multiple cellular pathways leading to effective elimination of cancer cells.”

The authors of the article also cited the potential anticancer mechanisms associated with Fenbendazole, including disruption of microtubule function and proteasomal interference. Fenbendazole also worked well as an adjunct therapy to chemotherapy and radiotherapy, as well as metabolic therapies. Although more commonly used in animals, Fenbendazole is very well-tolerated by humans. Some people prefer taking it for deworming.

Fenbendazole works effectively in cancer treatments when taken with specific vitamins like vitamin B17 and also with RSO. It helps destroy cancer cells by interrupting their sugar uptake, thus helping suppress cancer drug resistance and reducing the size of tumors.

When taken together with certain vitamin supplements and RSO, Fenbendazole displays powerful anti-tumor properties. These essential nutrients are well-known for their antioxidant properties.

Vitamin B17 has potent anti-metastatic and anti-tumor effects as shown in animal studies. The primary purpose of this vitamin is to restrain the tumor. The same research showed that consuming RSO can successfully reduce colorectal cancer in women.

Although the drug alone doesn't have the same valuable properties, it is promising and effective when combined with RSO and other vitamins like B17.

Fenbendazole is known to be effective against various forms of cancer cells. The primary reason is the size of the tumor and the drug blocks the glucose in the cancer cells, depriving them of their main source of fuel – sugar.

The results of treatments for reducing tumor volume in mice also showed that a combination of Fenbendazole, RSO and vitamins like B17 had far more important results compared to the rest of the groups. This also proves that a diet with vitamins and Fenbendazole can be effective in reducing tumor size.

Fenbendazole also works in an identical way to colchicine, which is a known destabilizing agent.

Since cancer cells utilize sugar as their primary source of fuel, researchers tested the Fenbendazole drug to know whether it will affect the sugar uptake. When it is combined with vitamins, the drug displayed positive results. Fenbendazole also interferes with glucose metabolism, making it effective for cancer therapy.

Although the drug is often ignored because it is used on animals, Fenbendazole is a safe drug with no side effects on humans. With science continuing to prove the benefits, it is important to make the most of these benefits by repurposing this drug for cancer treatment and making it cost effective.