



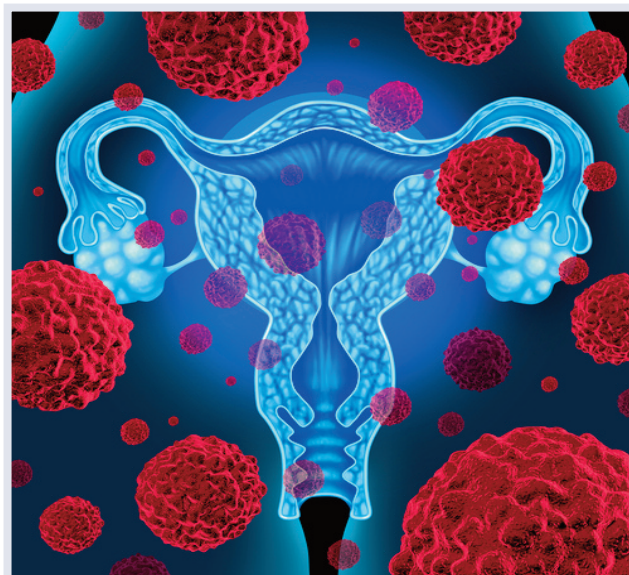
Cervical cancer is the third most commonly diagnosed cancer and the fourth most common cause of death in women. The American Cancer Society estimates that 12,900 new cases of cervical cancer will be diagnosed in 2015. Most women diagnosed with cervical cancer are between 30 to 60 years old. While the routine Pap test has reduced cervical cancer deaths in developed countries, the disease remains a major cause of death for women in developing countries. According to 2012 data, approximately 528,000 new cases of cervical cancer were diagnosed worldwide.

The Benefits of Micronutrient Synergy in Cervical Cancer

The cervix is the lower end of the uterus (womb) and is lined mainly with two types of cells: squamous cells and glandular cells. The squamous cells lead to the most common type of cervical cancer, squamous cell carcinoma. The glandular cells can lead to adenocarcinoma of the cervix. The development of cancer is a slow process; it usually takes 10-15 years for precancerous cells to turn into cancer. Smoking, obesity, long-term use of birth control pills, teenage pregnancies and multiple full term pregnancies increase the risk of cervical cancer. However, the most common risk factor is a chronic infection from specific types of human papilloma virus (HPV). Usually, there are no specific symptoms in the early and precancerous stages of the disease. Later, abnormal vaginal discharge, intermittent bleeding and pain during intercourse may indicate cervical cancer. Although cervical cancer can be treated effectively in the early stages, the outcome becomes poor as the disease spreads in the body (metastasis).

Similar to all other cancers, cervical cancer spreads by destroying the surrounding connective tissue using matrix metalloproteinase (MMP) and uroki-

nase plasminogen activator (uPA) enzymes. We have documented that micronutrients such as vitamin C, lysine, proline, green tea extract and others can effectively block the development and



Cervical cancer is one of the most common malignancies in women worldwide. If this cancer spreads through the body, the chances of survival for the women concerned are tremendously reduced. However, studies from the Dr. Rath Research Institute show that micronutrients are effective in inhibiting the spread of cervical cancer cells.

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spread of cancer cells by inhibiting critical steps in the process such as blocking MMP enzymes, reducing the growth of blood vessels that feed the tumor and strengthening the connective tissue matrix surrounding the cancer cells.

Our recent study¹ further confirms the efficacy of this micronutrient synergy approach in a living organism. It shows that, compared to the control group, mice subjected to cervical cancer develop much smaller and fewer tumors when their diet is supplemented with the specific micronutrient combination. In addition, cervical cancer tumors in the supplemented group of mice were less likely to metastasize as they were surrounded by a strong defined layer of connective tissue (capsule) that could form a barrier against the spread of the cancer cells. Such a capsule was absent in tumors in the control group. Moreover, the tumors that developed in the supplemented group of mice had more dead cancer cells (necrosis), thus indicating their regression.

For every woman the diagnosis of cervical cancer, especially in its advanced stages, poses a psychological, physical and financial burden affecting her and her family. This is particularly the case for women in the developing world. As such, this study, and our other results, further confirm that the road to developing a safe, effective, and science-based natural approach to cancer is wide open. This provides hope for thousands of women and offers an economically viable approach to health care economies in every country.

Ref:

1. Roomi, M.W., Cha, J., Kalinovsky, T., Roomi, N., Niedzwiecki, A., & Rath, M. (2015). *Experimental and Therapeutic Medicine*, 10, 901-906. <http://www.spandidos-publications.com/10.3892/etm.2015.2591>

Important Health Information for All

This information is provided to you courtesy of the Dr. Rath Research Institute. Led by two former colleagues of two-time Nobel Laureate Linus Pauling († 1994) this Institute has become a leader in the breakthrough of natural health research in the field of cancer, cardiovascular disease and other common diseases. The Institute is a 100% subsidiary of the non-profit Dr. Rath Foundation.

The groundbreaking nature of this research poses a threat to the multi-billion dollar pharmaceutical "business with disease." It is no surprise that over the years the drug lobby has attacked Dr. Rath and his research team in an attempt to silence this message. To no avail. During this battle, Dr. Rath has become an internationally renowned advocate for natural health saying, "Never in the history of medicine have researchers been so ferociously attacked for their discoveries. It reminds us that health is not given to us voluntarily, but we need to fight for it."

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