<u>Health Science News Page</u>

Exclusive Information from the Dr. Rath Research Institute

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The ovaries are part of the female reproductive system and are located on each side of the uterus. They are responsible for the storage and release of an egg every month during a woman's childbearing years, and the production of the hormones estrogen and progesterone. Estrogen and progesterone control the menstrual cycle and pregnancy, and have protective effects on the heart, bones and multiple organ systems in women.

Cancer of the ovaries is the fifth leading cause of cancer deaths in the US. Due to lack of specific symptoms, it is usually diagnosed in advanced stages of the disease. According to the American Cancer Society's 2015 estimates, approximately 21,000 women will be diagnosed with ovarian cancer in the US. Women over 60, those who are obese and those who have taken hormone treatments for fertility or menopause are at a higher risk of developing ovarian cancer. A woman's risk of developing ovarian cancer increases if a biological relative has or had ovarian or breast cancer, because it is likely that they would share a similar genetic mutation associated with the BRCA gene. While there are different types of ovarian cancers depending on the cell of origin, cancer arising from the cells lining the ovaries (epithelial) is the most common type of ovarian cancer. The standard treatment methods of surgery, radiation and chemotherapy fail to effectively treat the cancer that is already spread to other organs. This decreases the chances of recovery because there currently is no effective treatment for the spread of cancer (metastasis).

The ability of cancer to metastasize is due to the cancer cells being able to destroy the surrounding connective tissue barrier and travel to other areas of the body. Matrix metalloproteinase (MMPs) are collagen-digesting enzymes and they play a crucial role in the growth and metastasis of all cancers by destroying the surrounding connective tissue. We studied the

/aginc ability to block the MMPs enzymes with a combination of specific micronutrients including vitamin C, lysine, proline, green tea extract and others which are important in strengthening the connective tissue¹. Our results showed that the micronutrients completely blocked the MMPs enzymes and, combined with their connective tissue support, they were effective in stopping the spread of cancer cells by 100%. In normal cells, the MMPs activity is regulated by various substances (e.g., cytokines and certain hormones) from the surrounding tissues. However, this regulatory pattern drastically changes in cancer. In another study, we also compared the effects of various regulatory chemicals that increase MMPs secretion, and the effects of micronutrients². We observed that the micronutrients significantly inhibited MMPs secretion even in the presence of these compounds. In addition, the micronutrients could reduce the growth of ovarian cancer cells and their potential to metastasize.

More than 70% of ovarian cancers have already spread at the time of diagnosis, and there is no effective method to treat them. Our work documents that micronutrients act at various stages of cancer progression. The micronutrients reduce the growth of ovarian cancer cells, induce cancer cell death (apoptosis), decrease their metastasis potential, and thus they may provide hope for thousands of women.

1. MW Roomi, et al., Journal of Obstetrics and Gynecology Research 2006, 32(2):148-154.

2. MW Roomi et al., Oncology Reports 2010, 23: 605-614

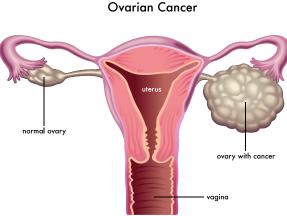
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The ground-breaking nature of this research poses a threat to the multi-billion dollar pharmaceutical "business with disease". It is no surprise that over the years the drug lobby has attacked Dr. Rath and his research team in an attempt to silence this message. To no avail. During this battle, Dr. Rath has become an internationally renowned advocate for natural health. Says he: "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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