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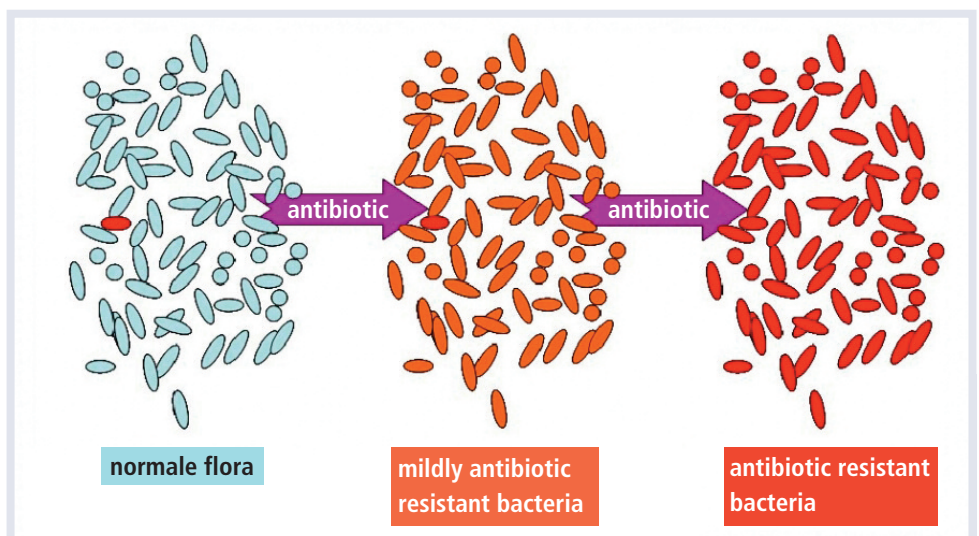


Globally, resistance to treatment with antimicrobial drugs is becoming an increasingly serious public health problem. Antimicrobial resistance is a larger phenomenon than antibiotic resistance. In addition to drug-resistant bacteria, the antimicrobial-resistant species also include other drug-resistant microbes such as fungi, parasites, and viruses. According to the World Health Organization (WHO), 480,000 new cases of multidrug-resistant tuberculosis (XDR-TB) were diagnosed in 2013. Other disease-causing and highly virulent organisms that have already developed drug resistance are malarial parasites; the fungus *Candida*; methicillin-resistant *Staphylococcus aureus* (MRSA); and bacteria-causing gonorrhea. Drug-resistant bacteria are estimated to cause 99,000 deaths in U.S. hospitals every year.

Micronutrient Synergy may prevent antimicrobial Resistance

Factors such as frequent and unnecessary use of antibiotics in patients with viral infections, not completing the prescribed course of antibiotics treatment for bacterial infections, and an abundant use of antibiotics in animal feed all contribute to the development and spread of drug-resistant microbes. Even simple preventive measures such as hand washing are not commonly used. This is critical, especially in hospital settings where drug resistant bacteria are extensively present. Hospital-acquired infections are one of the fastest ways of spreading drug-resistant bacteria and other microorganisms within communities. Patients with infections caused by drug-resistant bacteria are generally at increased risk of complications and death, more so than patients infected with the same bacteria that are not resistant. According to the United States Centers for Disease

Control (CDC), every year an estimated 648,000 people in the U.S. develop infections during their hospital stay. In a recently published study in the *British Medical Journal*, the authors concluded that the most commonly used antibiotics could soon be ineffective, especially in children with urinary tract infections (UTI), respiratory infections, and others, because the children continue



The development and spread of organisms that are resistant to antibiotics is caused by the uncontrolled, and sometimes unnecessary, use of antimicrobial agents in humans and animals. Specific micronutrient combinations have been shown to be able to reduce the antibiotic resistance of bacteria.

Micronutrient Synergy may prevent antimicrobial Resistance

to carry and spread the resistant bacteria for more than six months after treatment. Therefore, methods to control this problem are urgently required.

Our researchers conducted a study using the drug-resistant bacteria responsible for the most common infections. Specific strains of bacteria, such as Staphylococcus (UTI, respiratory, skin infections), E. Coli and Salmonella (food poisoning, UTI, anemia, kidney failure and death), and L. monocytogens (flu like symptoms), were used in the study.¹ The bacterial strains used were highly resistant to commonly used antibiotics. When subjected to a specific micronutrient combination containing vitamin C, lysine, proline, and green tea extract, these drug-resistant strains of bacteria showed increased susceptibility to the antibiotics. We also studied the effects on the bacteria of using vitamin C alone. Although vitamin C helps increase the antibiotic susceptibility of the bacteria, our results indicate that the combination of antioxidant micronutrients has a significantly higher effect than vitamin C alone.

Irresponsible use of antibiotics is contributing to the development of drug-resistant bacteria, and is threatening our world with a situation similar to that which existed before the discovery of penicillin, when there was no effective treatment for infections.

Our study gives hope that use of specific micronutrients can help and increase the vulnerability of these organisms to current antimicrobial treatments.

Ref:

1. Harakeh S. et al., *African J of Microbial Disease*, Vol. 7(20), pp. 2351-2358, 2013

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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