

Unexpected discovery: Breast cancer is associated with bacterial imbalance in breast tissue

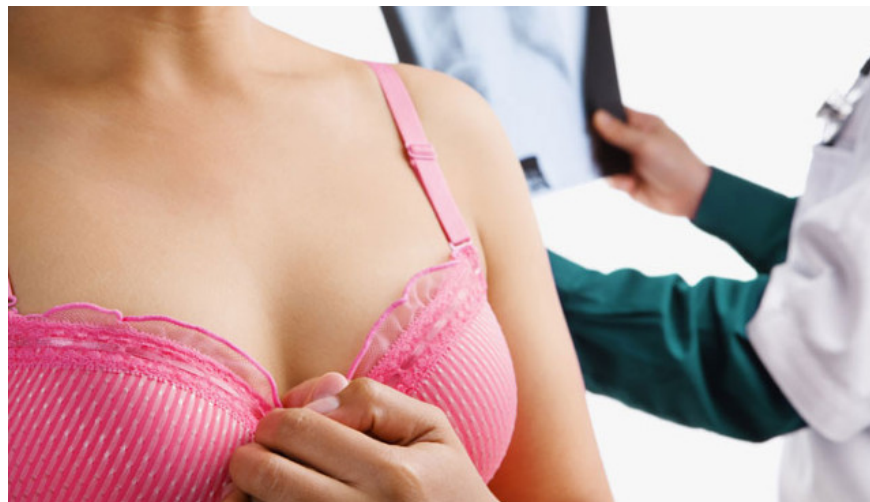
Researchers have found that the bacterial composition of breast tissue in healthy women differs from that of women with breast cancer.

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Research published on Oncotarget shows that healthy breast tissue contains more Methylobacterium bacteria, a finding that could give a new perspective in the fight against breast cancer.

The bacteria that live in the body, known as microorganisms, affect many diseases. Most studies have been done on "intestinal" bacteria, or bacteria in the gastrointestinal tract .



However, researchers have long suspected that a "microbiome" bacterium exists in breast tissue and plays an important role in breast cancer, but it has not been described in detail.

In this study, a team of scientists from Cleveland Clinic in Ohio, USA took the first step towards understanding the composition of bacteria in breast cancer by exploring microbial differences. in healthy breast tissue and cancerous breast tissue.

The author of the study Charis Eng, president of Cleveland Clinical Medicine Institute, said: "To my knowledge, this is the first study to examine the presence of bacteria in both breast tissue to find out different from bacteria in other locations'.

She hopes that combined microbiological therapy can be used to treat breast cancers and then prevent cancer with probiotics or antibiotics. She added: "We hope to find a bio assessment tool that will help us diagnose breast cancer more quickly and easily."

The study examined breast tissue of 78 patients undergoing mastectomy because of invasive carcinoma or prosthetic plastic surgery.

In addition, they examined mouth and urine rinses to determine the bacterial composition of other organs and organs in the body.

Stephen Grobmyer, co-author of the study, said: "If we can target specific cancer-causing bacteria, we can create an anti-cancer environment by combining bacteria to enhance the Existing treatments ".

Grobmyer added: "Further research is needed but this work is the first step to better understand the significant role of bacterial imbalance in breast cancer," Grobmyer added.

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