

運動歴は乳がん後の心疾患予防に役立つ (Abstract 17-A-12505)

運動は乳がん治療後の心血管疾患を予防するようである

Exercise appears to protect against cardiovascular disease after breast cancer treatment

定期的な運動は心臓の健康習慣の一部として全ての人々に推奨されるが、乳がんの治療を受 けた女性が直面する心血管系リスク上昇の軽減にも役立つようである、とAmerican College of Cardiology's 66th Annual Scientific Sessionで発表された。このスタディの結果、診断前に週5 時間の中等度の運動に匹敵する運動を行っていた乳がん患者は、診断前の運動レベルが低 かった者に比べ、心血管系イベントを発現する確率が40%低く、冠動脈疾患により死亡するリス クが60%低かった。

Full Text

While regular exercise is recommended as part of a heart-healthy lifestyle for any person, it also appears to help mitigate the increased cardiovascular risk faced by women treated for breast cancer, according to a study presented at the American College of Cardiology's 66th Annual Scientific Session

The study found that women with breast cancer who engaged in the equivalent of five hours of moderate exercise per week before their diagnosis were 40 percent less likely to have a cardiovascular event and 60 percent less likely to die from coronary heart disease compared to those with a low pre-diagnosis level of

Researchers said this study is the first to examine the long-term impact of exercise before a cancer diagnosis and the cardiovascular benefits of exercise across all types of cancer treatments.

Women who have been diagnosed with early-stage breast cancer face a markedly increased risk of heart disease compared to the general population. This increased risk, which reduces long-term survival, is attributed, in part, to cardiovascular damage from cancer therapies.

"Next to a second or recurrent cancer, heart disease is the second leading killer in cancer patients and survivors, so anything we can do to prevent cancer survivors from developing heart disease is very important," said Tochi Okwuosa, DO, a cardiovascular disease specialist at Rush University Medical Center and the study's lead author. "We found that with exercise, even before one is diagnosed with cancer, you can lower the risk of cardiovascular problems that are caused by chemotherapy and radiation therapy."

The research is based on data from the Women's Health Initiative, a large, nationwide observational study and clinical trial conducted by the National Institutes of Health from 1991-2006.

Researchers extracted data from 4,015 study participants who were diagnosed with non-metastatic breast cancer. Based on physical activity questionnaires participants completed periodically throughout the study, participants were grouped into quartiles of exercise according to metabolic equivalent task (MET) hours per week, a standardized metric that reflects both the amount and intensity of exercise: low (fewer than 2.5 MET hours per week), intermediate (2.5-8.6 MET hours per week), moderate (8.6-18 MET hours per week) and high (more than 18 MET hours per week, which translates to roughly five hours of moderate exercise per week). The researchers then analyzed cardiovascular events during an average of 12 years following participants' breast cancer diagnosis

After adjusting for age, they found that women reporting intermediate, moderate and high levels of exercise before their cancer diagnosis were 23 percent, 25 percent and 41 percent less likely to experience a cardiovascular event, respectively, compared to women reporting the lowest level of physical activity. Cardiovascular events included cardiovascular death, heart failure, myocardial infarction, angina, stroke or transient ischemic attack (TIA), buildup of plaque in the carotid or peripheral arteries, and revascularization procedures such as angioplasty or bypass surgery.

The results also showed women reporting intermediate, moderate and high levels of exercise before their cancer diagnosis were 41 percent, 55 percent and 60 percent less likely, respectively, to be diagnosed with coronary heart disease compared to women reporting low physical activity. Similar patterns were observed for all types of cancer treatment and after adjusting for a range of cardiovascular risk factors, demographic factors and medical conditions

Radiation therapy, which in breast cancer is administered relatively close to the heart (particularly with older reducing the relative part of said. Even targeted therapies such as trastuzumab, now standard of care in certain types of breast cancers, can increase the risk of heart failure, while other newer therapies can cause significant hypertension, she

"Some of the chemotherapies can cause heart problems because the heart has very limited ability to regenerate, unlike hair can regenerate, for example, so the risk of cardiovascular issues can persist for many years," Okwuosa said. "Exercise provides a level of conditioning within our bodies which, even when we're under cardiovascular stress (such as with cancer treatments) at some later point, helps us tolerate that stress better. Exercise performed throughout one's life or even close to the time of cancer diagnosis seems to help the patient down the line with respect to the cardiovascular problems and side effects of the cancer therapy."

The study is limited by its reliance on self-reported exercise behavior rather than more objective measures. In addition, although the results suggested that women who exercised more had a lower risk of having a heart attack or being diagnosed with heart failure, those results were not statistically significant, most likely because those outcomes did not occur in large enough numbers, Okwuosasaid.

ACC2017特集

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