

OlaparibはBRCA関連転移性乳がんの増殖を遅延 させる(Abstract LBA4)

スタディの結果、PARP阻害剤が乳がん治療において重要な役割を果たす 可能性があることが示唆された

Study findings suggest PARP inhibitors could play an important role in breast cancer treatment

約300人の女性を対象とした第III相臨床試験の結果により、PARP阻害剤がBRCA関連 乳がんの新たなタイプの治療として導入される可能性がある。Olaparibを投与された患者 の約60%において腫瘍が縮小したのに対し、化学療法を施行された患者におけるその割 合は29%であった。追跡期間中央値14か月の時点で、がん再発率はolaparib投与群で化 学療法群より42%低かった。がん進行までの期間中央値はolaparib投与群で7か月であり、 化学療法群で4.2か月であった。このスタディ結果は、2017年American Society of Clinical Oncology年次集会Plenary Sessionで取り上げられた。

Full Text

Findings from a phase III clinical trial of about 300 women may introduce PARP inhibitors as a new type of treatment for breast cancer. Compared to standard chemotherapy, the oral targeted medicine olaparib reduced the chance of progression of advanced, BRCA-related breast cancer by 42%, delaying progression by about 3 months

These data were presented in ASCO's Plenary Session, which features four abstracts deemed to have the greatest potential to impact patient care, out of the more than 5,000 abstracts featured as part of the 2017 American Society of Clinical Oncology (ASCO) Annual Meeting.

"This is the first demonstration of improved outcomes with a PARP inhibitor compared to standard treatment in women "This is the first demonstration of improved outcomes with a PARP inhibitor compared to standard treatment in women with BRCA mutation-associated breast cancer," said lead study author Mark E. Robson, MD, Clinic Director of the Clinical Genetics Service and medical oncologist at Memorial Stoan Kettering Cancer Center in New York. "It is especially encouraging to see that olaparib was effective against triple negative breast cancers that arise in women with inherited, germline BRCA mutations. This type of breast cancer is particularly difficult to treat and often affects

Up to 3% of all breast cancers occur in people with inherited changes in genes BRCA1 and BRCA2. These changes lower the cell's ability to repair damaged DNA. Olaparib blocks other key players in the cell's DNA repair machinery, PARP1 and PARP2. Because of their underlying defect in DNA repair, cancer cells with *BRCA* mutations are particularly vulnerable to treatments that target PARP.

"This study is proof of the principle that breast cancers with defects in a specific DNA damage repair pathway are sensitive to a targeted therapy designed to exploit that defect," said Dr. Robson.

The study enrolled patients with inherited BRCA mutations who had metastatic breast cancer that was either hormone receptor-positive or triple negative (estrogen receptor-negative, progesterone-receptor negative, and HER2-negative). Women with HER2-positive breast cancer were not included in this study because there are already very effective targeted treatments for this group. All patients had up to two prior rounds of chemotherapy for metastatic breast cancer, and those with hormone receptor-positive cancer had received hormonal therapy

The researchers randomly assigned 302 patients to receive olaparib tablets or standard chemotherapy (either capecitabine, vinorelbine, or eribulin) until the cancer worsened or the patient developed severe side effect

Tumors shrank in about 60% of patients who received olaparib, compared with 29% of those who received chemotherapy. At a median follow-up of about 14 months, patients who received olaparib had a 42% lower chance of cancer progression than those who received chemotherapy. The median time to progression was 7 months with olaparib and 4.2 months with chemotherapy

After progression, the researchers kept track of patients to see how long it would be before the cancer worsened again. The time to second progression was also longer in patients receiving olaparib, indicating that the cancers did not return in a more aggressive way once olaparib stopped working. The study is insufficiently mature to permit a determination if the benefits provided by olaparib translate into prolongation of overall survival at this time

The most common side effects in the olaparib group were nausea and anemia, whereas low white blood cell counts, anemia, fatigue, and rash on hands and feet were most common in the chemotherapy group. Severe side effects were less common with olaparib, occurring in 37% of patients compared to 50% of those treated with chemotherapy. Only 5% of patients needed to stop olaparib due to side effects. Health-related quality of life was significantly better in the olaparib group.

"Olaparib will probably be best used early in the course of metastatic breast cancer. It helps preserve patient quality of life, offers the chance to postpone the need for IV chemotherapy, and avoids side effects like hair loss and low white blood cell counts," said Dr. Robson.

"These long-awaited findings show that this new class of treatment can deliver better results for women with BRCA-positive breast cancer," said ASCO President Daniel F. Hayes, MD, FACP, FASCO. "What's remarkable is that we are now able to not only tailor breast cancer treatment based on the genetic changes in the tumor, but also on the inherited factors driving its development.

Given the relatively small size of the study, it is difficult to tell which subset of patients would benefit the most from

This is the first of four ongoing phase III clinical trials of PARP inhibitors in breast cancer to report findings. More research is needed to determine how well olaparib works in cancers that worsen despite platinum-based chemotherapy, a standard regimen not included in this study, and whether platinum-based chemotherapy would be useful after cancers worsen despite olaparib.

This study was funded by AstraZeneca

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