

Study: Donepezil does not improve chemotherapy-related cognitive impairment for breast cancer survivors

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Many breast cancer survivors report cancer-related cognitive impairment following chemotherapy, although prevalence rates and severity vary.

To test whether a dementia drug could improve cognition in breast cancer survivors, researchers at Wake Forest University School of Medicine have conducted a Phase III randomized, placebo-controlled trial to test donepezil, a cognitive-enhancing medicine used in the treatment of Alzheimer's disease.

The research team found that donepezil did not improve memory or other cognitive functions in survivors with cancer-related cognitive impairment.

The findings <u>appear</u> in the *Journal of Clinical Oncology*.

The researchers enrolled 276 breast cancer survivors from community oncology practices affiliated with the National Cancer Institute Community Oncology Research Program (NCORP), a national network that brings cancer <u>clinical trials</u> and care delivery studies to communities.

Study participants had received at least four cycles of adjuvant chemotherapy and reported cognitive impairment and memory problems for one to five years after chemotherapy had been completed. Participants were enrolled in the NCORP study between July 2017 and July 2021.

"The participants were assigned to either receive 5-10 mg of donepezil, taken once a day for 24 weeks, or placebo," said Stephen R. Rapp, Ph.D., professor of psychiatry and behavioral medicine at Wake Forest University School of Medicine and lead author of the paper.

Cognitive assessments were conducted before treatment, at 12 weeks



and at end of treatment.

"We found that the participants did not perform differently at the end of treatment on tests of memory, other cognitive functions, or subjective functioning than those randomly assigned to placebo," Rapp said.

While donepezil cannot be recommended as a treatment to improve cancer-related <u>cognitive impairment</u> in <u>breast cancer survivors</u> after completing <u>chemotherapy</u>, the researchers say further trials are needed.

"Additional research with different timing of administration, different medications or medication combinations, or non-pharmacological interventions are warranted," said Glenn Lesser, M.D., deputy director of the Atrium Health Wake Forest Baptist Comprehensive Cancer Center, senior author of the manuscript and principal investigator of the Wake Forest NCORP Research Base.

More information: Stephen R. Rapp et al, Phase III Randomized, Placebo-Controlled Clinical Trial of Donepezil for Treatment of Cognitive Impairment in Breast Cancer Survivors After Adjuvant Chemotherapy (WF-97116), *Journal of Clinical Oncology* (2024). DOI: 10.1200/JCO.23.01100

Provided by Atrium Health Wake Forest Baptist

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