

# Binocular video game doesn't up visual function in amblyopia

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(HealthDay)—A home-based binocular falling-blocks video game does

not improve visual outcomes more than placebo for children and adults with unilateral amblyopia, according to a study published online Jan. 4 in *JAMA Ophthalmology*.

Tina Y. Gao, from the University of Auckland in New Zealand, and colleagues compared the effectiveness of a binocular [video game](#) with a placebo video game for improving visual functions. A total of 115 participants aged 7 years and older with unilateral amblyopia were recruited and allocated to receive the active or placebo video game.

The researchers found that the mean amblyopic eye visual acuity improved from baseline by 0.06 and 0.07 logMAR in the active and placebo groups, respectively. After adjustment for baseline visual acuity and age group, the mean treatment difference between the groups was -0.02 logMAR (95 percent confidence interval, -0.06 to 0.02;  $P = 0.25$ ). Sixty-four percent of participants in the active group and 83 percent in the [placebo](#) group achieved compliance with more than 25 percent of prescribed game play. Sixty-four percent of the active group achieved fellow eye contrast greater than 0.9 at six weeks. There were no differences between the groups for any secondary outcomes.

"More engaging video games with considerations for compliance may improve effectiveness," the authors write.

Two authors are named inventors on two patents that cover the binocular [video game](#) treatment used in the clinical trial.

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