

Supplements don't measurably increase macular pigment density

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(HealthDay)—Dietary supplementation does not lead to measurable

increases in macular pigment optical density, according to a study published online Sept. 28 in *JAMA Ophthalmology*.

Jean-François Korobelnik, M.D., from Centre Hospitalier Universitaire Bordeaux in France, and colleagues randomized 120 individuals who were first-generation offspring of parents with neovascular [age-related macular degeneration](#) and were free of any ocular or retinal disease to receive either two daily dietary supplementation capsules (containing lutein, zeaxanthin, ω -3 polyunsaturated [fatty acids](#), and vitamins), or placebo for six months.

The researchers found that there was a statistically significant increase in plasma lutein and zeaxanthin in the lutein plus [zeaxanthin](#) group after three months and six months of treatment versus the [placebo group](#). However, the difference in macular pigment optical density (MPOD) change, measured by the Heidelberg Retina Angiograph at 0.98 degrees eccentricity between six months and baseline, was 0.036 (P = 0.33).

"Further research is necessary to understand the mechanism of absorption and metabolism of these nutrients in the macula, the best way to measure MPOD, and the clinical benefit for the patients," conclude the authors.

Two authors disclosed financial ties to pharmaceutical companies, including Laboratoires Théa, which funded the study.

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