



AMD and Nutritional Supplements

What is AMD?

AMD is a leading cause of vision loss in people 50 years or older. It damages a specific part of your eye called the macula. With AMD, you lose the ability to see fine details, both close-up and at a distance.

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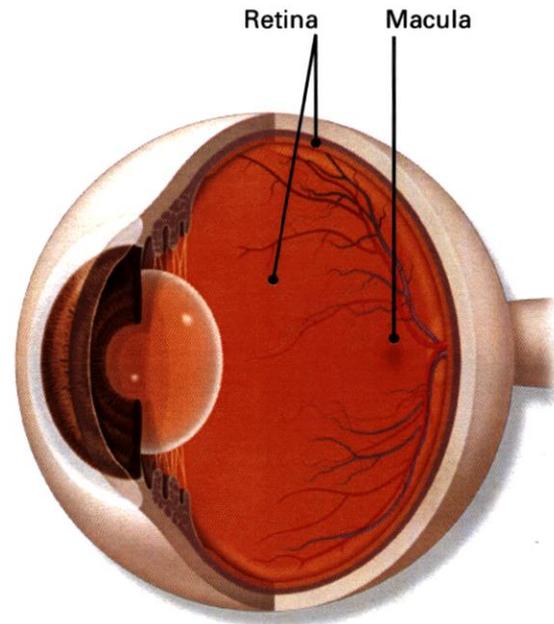
People who have a certain form of age-related macular degeneration (AMD) may benefit from a specific mix of vitamins and minerals. Taking these nutritional supplements might help slow this eye disease.

How Does AMD Affect Vision?

AMD can affect one or both eyes. Your AMD may be so mild that you hardly notice any problems. Or your AMD may be more severe. With severe AMD, you may notice that printed words and even straight lines look wavy or blurry. You may also notice what seems to be a dark or empty space in the center of your vision. For example, you may see the outline of a clock but not see the hands to tell what time it is.

Although AMD affects your central vision, it does not affect your peripheral (side) vision, nor does it cause total blindness.

About 8 out of 10 people with AMD have the dry form. This condition is due to a breakdown or thinning of the **macula**. Dry AMD usually begins when tiny, yellow deposits called drusen form



Eye Words to Know

Retina: Layer of cells lining the back wall inside the eye. It senses light and sends signals to the brain so you can see.

Macula: Small but important area in the center of the retina. You need the macula to see fine details of objects that are in front of you.

Drusen: Tiny white or yellow particles which form under the retina. They usually don't cause vision loss. But having many or very large drusen can be a sign of macular degeneration.



With AMD, dark areas may appear in your central vision.

under the **retina**. Eventually, the macula may become thinner and stop working properly.

Wet AMD is the other form. With wet AMD, new, abnormal blood vessels form under or within the retina. This is a more serious type of AMD.

Many people with AMD have drusen. These alone do not cause vision loss. But when drusen grow in size or number, you are at risk for getting early or intermediate AMD. There are not always symptoms with these stages of AMD, though people with intermediate AMD might start to notice a blurred spot in their central vision.

Advanced dry AMD develops when cells in your macula begin to break down or when wet AMD develops. This is when the blurred spot in your central vision starts getting bigger and darker. That is what robs you of your central vision.

Dry AMD and nutritional supplements

AREDS 2 (Age-Related Eye Disease Study 2) was a very large research study. It looked at taking vitamins and minerals daily for AMD. This study found that certain nutritional supplements could help some people who have a lot of drusen. These supplements may also lower risk of wet AMD and vision loss in the second eye of people who lost vision in one eye. Taking the following nutritional supplements every day may help these people lower their risk of getting late-stage or wet AMD:

- Vitamin C (ascorbic acid) 500 mg
- Vitamin E 400 international units (IU)
- Lutein (10 mg)
- Zeaxanthin (2 mg)
- Zinc (as zinc oxide) 80 mg
- Copper (as cupric oxide) 2 mg

It's important to remember that nutritional supplements are not a cure for AMD, but may help slow the disease in some people with certain forms of AMD. Your ophthalmologist can check your eyes to see if you may benefit from these supplements.

Should you take nutritional supplements for AMD?

Talk with your ophthalmologist about whether nutritional supplements are recommended for you. Here are some topics to discuss:

- **Your chance of getting advanced AMD.**
Studies show that nutritional supplements

might help people with early to intermediate AMD who are at risk for developing advanced AMD.

- **Eye-healthy foods.** Studies show that nutritional supplements alone are not enough to prevent or delay advanced AMD. You also should eat a healthy, balanced diet. This includes dark leafy greens (like spinach and kale) along with yellow, orange and other colorful fruits and vegetables. Eating fatty fish like salmon may also lower your risk of early or advanced AMD.
- **Benefits and risks of nutritional supplements.** Taking nutritional supplements can be helpful, but there can be possible health risks. Talk with your ophthalmologist and primary care doctor about how the vitamins and minerals listed above might affect you.

Summary

Some people with dry AMD might benefit from certain vitamins and minerals. Taking these nutritional supplements every day could help to slow their AMD.

You should talk with your ophthalmologist to learn if these nutritional supplements are recommended for you.

If you have any questions about your eyes or your vision, speak with your ophthalmologist. They are committed to protecting your sight.

Watch an AMD video from the American Academy of Ophthalmology's EyeSmart program at aao.org/amd-link.

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