Eating Well for your Eyes

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Goal and Objective for Lesson:

In this lesson you will learn what is age-related macular degeneration (AMD), the two types of AMD and the most common risk factors. This lesson contains a simple test to screen for vision problems and emphasizes the importance of seeing your eye doctor for regularly scheduled eye exams. Lastly, a focus on eating well for your eyes with particular attention to vitamins and nutrients that may reduce vision loss will be highlighted.
Eating Well for your Eyes

Lesson Guide:

Nutrition and eye health have become a hot topic in recent years. In age-related macular degeneration (AMD), central vision becomes blurry. Approximately 2 million Americans have experienced vision loss from advanced AMD, and nearly another 7 million with early-stage AMD are at a high risk for vision loss.

Lead a discussion of the materials provided in the following handouts. Make copies of the handouts to give to each group member.

- Discuss what is age-related macular degeneration (AMD)
- Name the two types of AMD
- From the handout, have participants do a simple screening test using an Amsler grid to screen for vision problems caused by AMD.
- Remind members to follow up with their eyecare provider immediately if a problem is detected.
- Don’t forget the importance of regularly scheduled eye exams for vision screenings.
Review the list of risk factors from the handout and ask group members:

- What steps can you take to help reduce your risk for developing AMD?

Some factors we cannot control, our skin and eye color, gender and genetics, but some lifestyle choices such as smoking and exercise, we can look at our habits and encourage group members to make healthy choices for optimal health.

- Lastly, share the information provided on nutrition from the Eating for your Eye Health handout

- Discuss with group members ideas of foods to include in their diets to increase intake of nutrients lutein and zeaxanthin found primarily in fruits, vegetables, and eggs.

- Ask members to name their favorite food that is high in lutein and zeaxanthin.

To wrap up, ask participants what one step they plan to take to improve their eye health after learning about Eating Well for your Eyes
The role of nutrition

Dozens of studies on nutrition and AMD point to a relationship between increased fruit and vegetable intake and a decreased risk for both dry and wet AMD. More research is needed to draw any conclusions, but clearly, increased intake of certain fruits and vegetables is indicated for better eye health.

For more information on AMD
www.amdalliance.org or toll-free AMD Alliance North America hotline at (877) AMD-7171
www.pbrc.edu — use lutein and zeaxanthin as search terms

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For more information on this and other topics, see www.ag.ndsu.edu

See NDSU publication FN709, “Eating for Your Eye Health,” for important information about nutrition and eye health.
Age-related macular degeneration is the deterioration of the central region of the retina called the macula. The macula is made up of lutein and zeaxanthin — two carotenoids. A “healthy” macula, about the size of this letter “O,” is necessary for central vision. In age-related macular degeneration (AMD), central vision becomes blurry.

Nearly 2 million Americans have vision loss from advanced AMD, and another 7 million with early AMD are at substantial risk for vision loss. AMD comes in two types: wet and dry.

- **Dry AMD** is more common and less severe, occurs when light-sensitive cells in the macula slowly break down. Untreated dry AMD can progress (sometimes very quickly) to wet AMD.

- **Wet AMD** is caused by abnormal growth of blood vessels under the macula. This leads to rapid loss of central vision. Wet AMD is otherwise known as advanced AMD.

### Medical Treatment

Medical treatments are limited and sometimes ineffective, so getting an early diagnosis is important. Know what the risk factors are, especially those factors that may be affected by your lifestyle choices.

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### Check Your Eyesight

You can do a simple test using an Amsler grid to screen for vision problems caused by AMD.

If you are at risk, using the Amsler grid test may lead you to receiving immediate care. But don’t forget your regularly scheduled eye exams.

#### Procedure

Hold the Amsler grid at eye level at a comfortable reading distance.

- Wear your glasses during the test.
- Cover one eye at a time and focus on the center dot.
- If you notice wavy, broken or blurry lines or missing areas of vision, contact your eye-care provider immediately.

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### Risk Factors

#### Smoking

Research shows AMD occurs two to three times more frequently among tobacco smokers. The risk for AMD increases with the number of cigarettes smoked. Saving your sight is a great reason to stop smoking.

#### Sunlight

Overexposure to sunlight as a teen has been linked to later AMD. Fair-skinned people also seem to be more prone to AMD, but whether previous exposure to sun is the cause is unknown.

#### Exercise

A recent study revealed that people with an active lifestyle are less likely to develop wet AMD. The 15-year study also illustrated that for each increased increment in the numbers of blocks walked (more than three times per week), the risk for wet AMD decreased accordingly. However, the study did not show an association for prevention of dry AMD.

#### Age

The incidence of AMD increases with age. The U.S. National Eye Institute estimates that while in their 50s, people have a 2 percent chance of getting AMD; this increases to 30 percent in those over age 75 (and up to 67 percent in those over age 90). Age is the largest risk factors for AMD.

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### IEHA Program Lesson Submission

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<thead>
<tr>
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