What is AGE-RELATED MACULAR DEGENERATION?
What is Age-related Macular Degeneration?

Age-related macular degeneration, or AMD, is an eye disease that causes loss of central vision. Central vision is needed for seeing objects clearly and for common daily tasks such as reading and driving. In some cases, AMD advances so slowly that people do not notice any visual changes. In others, the disease can progress very rapidly and can lead to irreversible vision loss in both eyes.

AMD is the leading cause of vision loss and blindness among Americans aged 60 and older. Approximately 15 million people in the United States have AMD, and more than 1.76 million Americans have the advanced vision impairing form of the disease known as Wet AMD. Due to the rapidly aging U.S. population, this number is expected to increase to almost 3 million by 2020.

AMD is degeneration of the macula — the central part of the retina where light is focused and nerve signals tell your brain what you are seeing. The macula provides the sharp central vision we need for activities such as reading, driving, and recognizing faces. AMD slowly destroys the macula, causing central vision loss.

What is the Macula?

AMD affects the macula, the part of the eye that allows you to see fine details. The macula is located at the center of the retina, the delicate tissue at the back of the eye that converts light into images and sends them back to the brain. The macula is very important and is responsible for our central vision, ability to see fine details, and color vision.

AMD cannot be reversed. However, the good news is that with new effective treatments available, vision can be preserved when macular degeneration is detected in its earliest stages.

(1) Prevalence of Age-Related Macular Degeneration in the United States
The Eye Diseases Prevalence Research Group
The Two Types of AMD

Dry AMD
The dry form of macular degeneration is the most common, representing 85 percent of all people with AMD, and 10 percent of all AMD-related blindness. Dry AMD is characterized by the development of yellow-white deposits underneath the retina, known as drusen. Other than slightly blurred vision, Dry AMD patients often present no symptoms. Dry AMD typically progresses slowly allowing many with the disease to live normal, productive lives. However, all patients with Dry AMD are at risk of developing Wet AMD, a rapidly progressing form that can cause severe and irreversible vision loss.

Wet AMD
The wet form of macular degeneration represents 15 percent of the AMD population, but accounts for approximately 90 percent of all AMD-related blindness. Wet AMD occurs when abnormal blood vessels grow underneath the retina and macula. These blood vessels leak blood and fluid into the back of the eye, distorting and scarring the macula, and destroying central vision. Under these circumstances, vision loss may be rapid and severe.
Age-Related Macular Degeneration (AMD) is a leading cause of vision loss among adults over 60 years of age. Early detection is key to more effective treatment and better visual outcome.

**The Road to Better AMD Management**

The Foresee PHP® is a new early detection and monitoring system that can help save your vision!

- Non-invasive macular vision testing
- Quick and easy examination
- Immediate patient results
- FDA cleared

**Early AMD Detection is Key**

If you have been diagnosed with Age-Related Macular Degeneration (AMD), ask your Doctor about monitoring progression with the Foresee PHP®. The Foresee PHP® (Preferential Hyperacuity Perimeter) is a visual field analyzer designed to monitor macular function, and detect subtle visual changes that are often ignored by patients. It is the only visual field analyzer clinically validated and FDA cleared for monitoring AMD and for the early detection of Wet AMD.

**PHP Technology**

Foresee PHP® Technology is based on the phenomenon of hyperacuity (Vernier acuity), which is defined as the ability to detect the misalignment between two or more objects. Hyperacuity has a higher...
sensitivity than normal visual acuity and is unaffected by patient age or physical condition. Preferential hyperacuity technology can reveal distortions otherwise hidden by the brain’s innate ability to complete missing information.

AMD Testing

The Foresee PHP®, Preferential Hyperacuity Perimeter, provides a simple and non-invasive way to detect abnormalities in the macula that may suggest the presence of early Wet AMD. Routine monitoring with Foresee PHP® allows your doctor to manage your AMD and detect the wet form of the disease before visual symptoms are noticed. When Wet AMD is detected early, irreversible vision loss can be prevented with available treatments.

What to Expect

Foresee PHP® testing will be performed in a dimly lit room free from distractions. You will be seated in front of a computer screen, with your chin comfortably placed in a rest.

During the test, flashing white dotted lines will be shown across the screen, one at a time, and in different locations. Artificial distortions, or little “bumps,” will be presented on the white dotted lines.
You will touch the computer screen with a pen stylus to indicate where on the dotted line the “bump” was seen. Testing takes approximately 5 minutes per eye and the results are automatically displayed for analysis.

**Why PHP ?**

The Foresee PHP® is the solution for evaluating macular function. It is an important tool in monitoring progression of AMD and for the early detection of conversion of AMD to its visually impairing form, Wet AMD.

For more information about AMD testing, talk to your doctor.

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**Additional Resources**

**National Eye Institute**
(301) 496-5248

**Prevent Blindness America**
www.preventblindness.org
1-800-331-2020

**Macular Degeneration Partnership:**
A Program of the Discovery Eye Foundation
www.amd.org
(310) 623-4466

**Macular Degeneration Foundation**
www.eyesight.org
1-888-633-3937

**Foundation Fighting Blindness**
www.blindness.org
1-800-683-5555

**Macular Degeneration Research: A Program of the American Health Assistance Foundation**
www.ahaf.org/macular
1-800-437-2423

**AMD Alliance International**
www.amdalliance.org
1-877-AMD-7171 or 1-877-263-7171

**Macular Vision Research Foundation**
www.mvrf.org
(610) 668-6705

**Lighthouse International**
www.lighthouse.org
1-800-829-0500