



Older Americans
About Their
Aging Eyes







# **Educating Older Americans About Their Aging Eyes**



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# **Educating Older Americans About Their Aging Eyes**

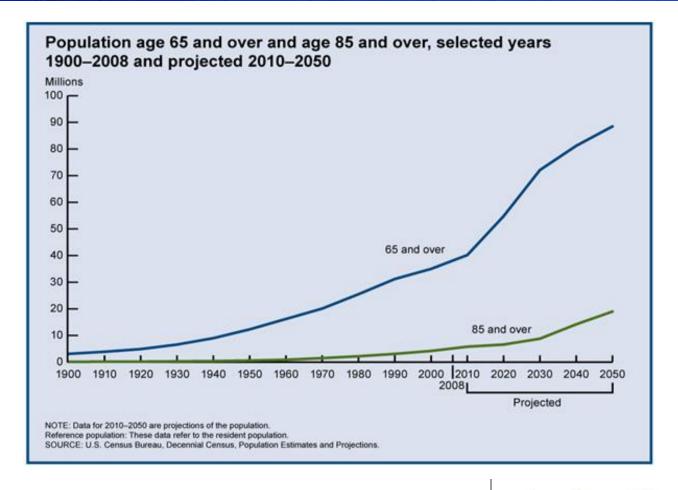
- Learn about vision loss.
- Educate older adults.
- Help spread the word.







## **Aging in the United States**







# **Eye Diseases and Conditions Prevalence and Projections**

	2010 Estimates	2030 Projections	2050 Projections
Age-Related Macular Degeneration	2,100,000	3,700,000	5,400,000
Cataract	24,400,000	38,700,000	50,200,000
Diabetic Retinopathy	7,700,000	11,300,000	14,600,000
Glaucoma	2,700,000	4,200,000	6,300,000
Low Vision	2,900,000	5,000,000	8,900,000

Source: Vision Problems in the U.S. report and searchable database, www.nei.nih.gov/eyedata





## **Common Vision Problems With Age**

- Vision loss and blindness are not a normal part of aging.
- Some vision changes are common:
  - Losing focus
  - Noticing declining sensitivity
  - Needing more light





# **Many Vision Changes Can Be Corrected**

- Vision changes can often be corrected with:
  - Contact lenses
  - Glasses
  - Improved lighting
- People can age without experiencing changes in their vision.





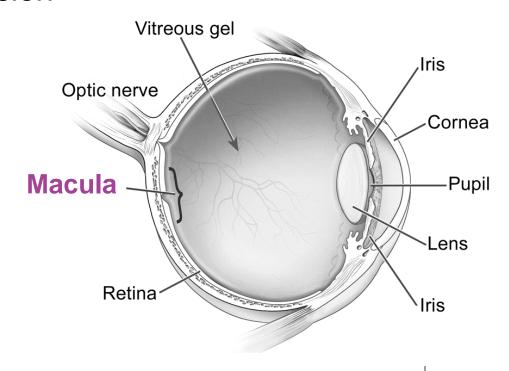
## **Age-Related Eye Diseases and Conditions**

- As people get older, these are the common eye diseases and conditions they could face:
  - Age-related macular degeneration
  - Cataract
  - Diabetic retinopathy
  - Glaucoma
  - Dry eye
  - Low vision





Damages the macula, which is needed for sharp, detailed central vision









Normal vision



Same scene viewed by a person with advanced age-related macular degeneration



#### Risk factors:

Age, smoking, family history, obesity, race

### Symptoms:

- No pain
- Blurred vision
- Drusen (only visible to an eye care professional)





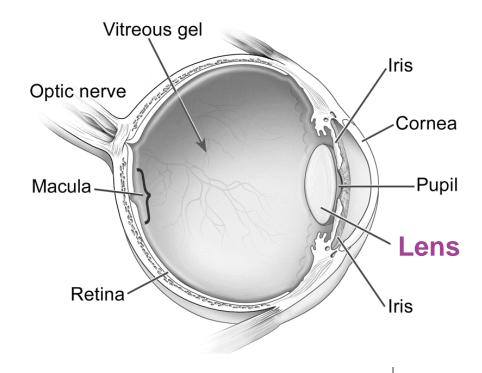
### Treatment options:

- Age-Related Eye Disease Study (AREDS) special vitamins/minerals supplement formulation
- Eye injections
- Laser surgery





### Clouding of the eye's lens that causes loss of vision







Normal vision



Same scene viewed by a person with a cataract

#### Risk factors:

- Age
- Diabetes, smoking, and exposure to sunlight

### Symptoms:

- Cloudy or blurred vision
- Colors that appear less vivid as they once did
- Glare
- Poor night vision





# Treatment options:

- Glasses
- Better lighting
- Surgery





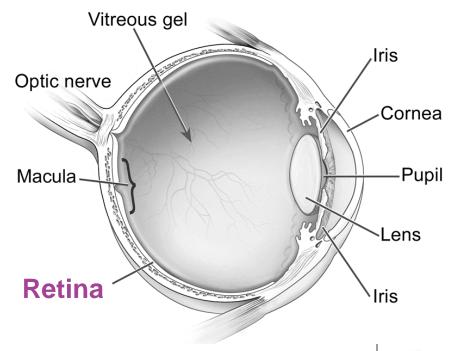






### **Diabetic Eye Disease**

Group of eye problems associated with diabetes, including diabetic retinopathy, glaucoma, and cataract





# **Diabetic Eye Disease**



Normal vision



Same scene viewed by a person with advanced diabetic retinopathy



## **Diabetic Eye Disease**

### Symptoms:

No early warning signs or symptoms

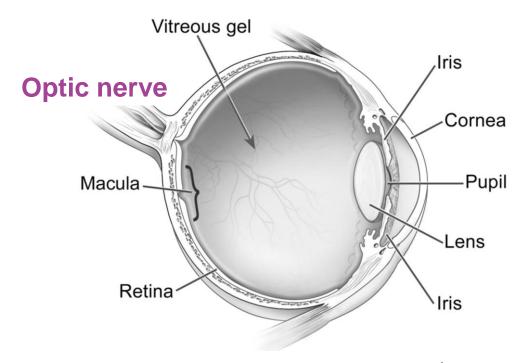
### Treatment options:

- Laser treatment
- Injections
- Early detection and timely treatment can reduce the risk of severe vision loss by 95 percent.





Group of eye diseases that damages the optic nerve of the eye







Normal vision



Same scene viewed by a person with advanced glaucoma



#### Risk factors:

- Age, race, and family history
  - African Americans over age 40
  - Everyone over age 60, especially Hispanics/Latinos
  - People with a family history of glaucoma
- People with diabetes





### Symptoms:

- No early warning signs or symptoms
- No pain
- Loss of side vision

### Treatment options:

- Medications, usually eye drops
- Laser or conventional surgery





## **Dry Eye**

Occurs when the eye does not produce tears properly or when tears evaporate too quickly

#### **Common symptoms:**

- Episodes of excess tears following dry periods
- Feeling of sand or grit
- Blurred vision
- Pain and redness
- Stringy discharge from the eye
- Stinging or burning of the eye
- Sensitivity to light







# **Dry Eye**

### People at higher risk:

- Dry eye can occur at any age.
- Women experience dry eye more often than men.
- Dry eye can occur as a side effect of certain medications.
- Can also result from focusing on a computer screen for long periods of time.





# **Dry Eye**

### Treatment options:

- Using artificial tears, prescription eye drops, gels, gel inserts, and ointments
- Wearing glasses or sunglasses
- Getting punctal or tear duct plugs







#### **Low Vision**

A visual impairment that cannot be corrected by regular glasses, contact lenses, medication, or surgery that interferes with the ability to perform everyday activities





### **Low Vision**

### People at higher risk:

- People with eye disease
- People who develop vision loss after eye injuries or from birth defects

### Treatment options:

Vision rehabilitation





### **Educating Older Adults About Vision Loss**

- Existing knowledge about eye health and disease
- Key eye health messages to communicate to older adults
- Ways to prevent vision loss





# **Survey Question**

- What percentage of older adults are aware that glaucoma has no early symptoms?
  - o 90 percent
  - o 65 percent
  - 35 percent
  - 10 percent





# **Survey Question**

- What percentage of older adults are aware that age-related macular degeneration runs in families?
  - o 90 percent
  - 65 percent
  - 35 percent
  - 10 percent





#### What Do Older Adults Know About Vision Loss?

# Most older Americans (65+) have heard of different eye diseases but don't know a lot about how they affect the eyes.

- 96% heard of glaucoma; only 10% knew it has no early symptoms
- 70% heard of AMD; 57% knew you can have it and not know it; 35% knew it runs in families
- 65% heard of diabetic eye disease; 58% knew vision loss can be prevented; only 8% knew it had no early symptoms
- 16% had heard of low vision
- 71% said loss of eyesight would have the greatest impact on their daily life compared to loss of memory, hearing, speech, or a limb



#### What Do Older Adults Know About Vision Loss?

- Most older adults have limited knowledge of age-related eye disease, and think it is a natural part of aging.
- They fear the loss of vision will mean loss of independence.
- The barriers they face include:
  - Not wanting their pupils dilated
  - Absence of health insurance
  - Lack of awareness





## **Ways to Prevent Vision Loss**

### Step #1

 Visit an eye care professional for a comprehensive dilated eye exam.





## **Comprehensive Dilated Eye Exam**



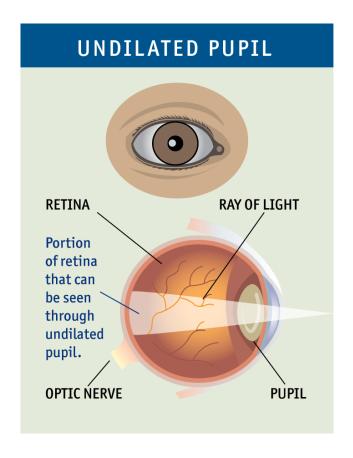
An eye care professional puts dilating drops in a patient's eye

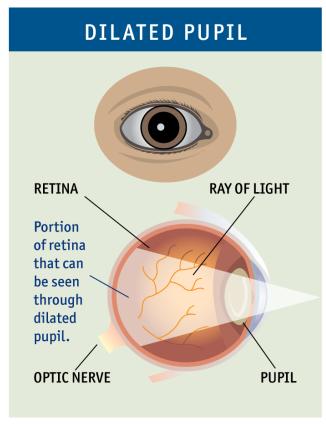


The eyes are examined for any signs of damage or disease.



# The Dilated Eye







# Step #2

Eat a healthy, balanced diet.





## Step #3

Maintain a healthy weight.





# Step #4

Don't smoke.





#### Step #5

Keep diabetes under control.





#### Step #6

Wear sunglasses and a brimmed hat outdoors.





#### Step #7

Wear protective eyewear.







#### Step #8

Know your family's eye health history.





#### **Helping Spread the Word About Vision Loss**

- NEHEP is dedicated to preventing vision loss and promoting vision rehabilitation through public and professional education programs.
- Health and community professionals play a vital role in raising awareness.
- The NEHEP Vision and Aging Program has a variety of resources.







- NEHEP Vision and Aging Program website
- See Well for a Lifetime Toolkit
- Infographics
- Drop-in article
- Social media resources
- Medicare benefit card
- Age-related Eye Diseases Web page
- Living With Low Vision booklet and DVD







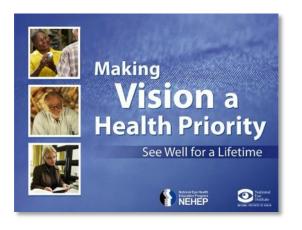


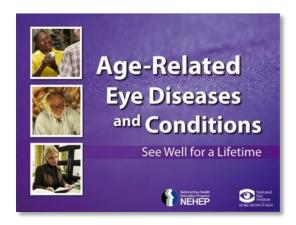
- NEHEP Vision and Aging Program website
  - Designed for professionals who work with older adults
  - www.nei.nih.gov/nehep/ programs/visionandaging





- See Well for a Lifetime Toolkit
  - For health and community professionals who work with older adults
  - https://www.nei.nih.gov/nehep/programs/visionandaging/whatis



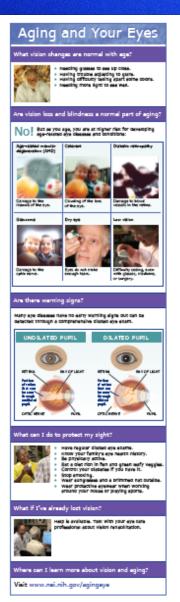












#### Infographics

- Use in newsletter articles or on websites and social media pages
- www.nei.nih.gov/nehep





TAKE CARE
OF YOUR EYES
AS YOU AGE





Aging is a process that provides us with many opportunities to reinvent ourselves, from major transformations such as becoming a grandparent or going back to school to simple lifestyle changes like starting a new exercise program. Don't miss out on any of these opportunities; take stock of your eye health to make sure you are seeing your best and that your eyes are healthy.

While some changes to vision are normal with aging, people are at higher risk for vision loss from eye diseases and conditions as they age.

Many eye diseases have no early warning signs or symptoms, but they can be detected early with regular comprehensive dilated eye exams.

A comprehensive dilated eye exam is different from the basic eye exam or screening you have to get new glasses or contacts. Your eye care professional will place drops in your eyes to dilate, or widen, the pupil. Then, he or she will use a special magnifying glass to examine the inside of your eye for early signs of—

- Age-related macular degeneration, which gradually destroys the macula (the part of the eye that
  provides sharp, central vision)
- · Cataract, a clouding of the lens in the eye
- Diabetic retinopathy, a complication of diabetes that damages blood vessels in the retina (the light-sensitive tissue at the back of the eye)
- Glaucoma, a group of diseases that can cause fluid and pressure to build up in the eye and damage the optic nerve

Don't wait until you notice problems with your vision. Call your eye care professional today to make an appointment for a comprehensive dilated eye exam. Early diagnosis and treatment are the best ways to prevent vision loss. And if you have been diagnosed with an eye disease or condition, work with your eye care professional to learn about your treatment or rehabilitation options. Improve your knowledge of eye health to ensure a healthy foundation for change.

Visit <u>www.nei.nih.gov/agingeye</u> for more information.





#### Drop-in article

- Use on websites, blogs, newsletters, or other.
- www.nei.nih.gov/ham













- Social Media Resources
  - Ready-to-post Facebook and Twitter messages
  - Vision and Aging board on Pinterest
  - Eye disease videos on YouTube
- www.nei.nih.gov/nehep









- Medicare Benefit Card
- Promotes the glaucoma and diabetic eye disease benefit under Medicare
- Will help pay for comprehensive dilated eye exams for:
  - African Americans age 50 or older
  - Hispanics/Latinos age 65 or older
  - People with a family history of glaucoma
  - People with diabetes
- https://www.nei.nih.gov/nehep/programs/ visionandaging/medicare
- Financial Assistance: www.nei.nih.gov/healthyeyes/financialaid.asp







- Age-Related Eye Diseases Web page
  - Designed to educate older adults about eye health
  - www.nei.nih.gov/agingeye







- Living With Low Vision booklet and DVD
  - Designed for people with vision loss and their friend, family, and caregivers
  - www.nei.nih.gov/lowvision





#### Outlook

- Provides updates on NEHEP eye health education research, activities, and resources
- www.nei.nih.gov/nehep/newsletter





#### **Additional Resources**









- YouTube: /NEINIH
- Facebook: /NationalEyeHealthEducationProgram
- NEHEP Twitter: @NEHEP
- NEI Twitter: @NatEyeInstitute
- Pinterest: /neinih
- NEHEP website: www.nei.nih.gov/nehep





## **Questions**







#### **Please Share Your Activities**

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