Jebmh.com Commentary

# Cataract Disease: Causes, Symptoms, and Modern Treatment Approaches

Miten Jay\*

Department of Ophthalmology, Stanford University Medical Center, Palo Alto, California

#### **DESCRIPTION**

Cataracts are a common age-related eye condition that affects millions of people worldwide. It is a progressive disease characterized by the clouding of the eye's natural lens, leading to blurred vision and, if left untreated, can result in severe vision impairment. Cataract therapy has become much more efficient and secure as a result of recent medical developments. Signs and symptoms vary depending on the type of cataract, though considerable overlap occurs. People with nuclear sclerotic or brunescent cataracts often notice a reduction of vision. Nuclear cataracts typically cause greater impairment of distance vision than of near vision.

#### **Causes and Risk Factors**

Cataracts primarily develop due to the natural aging process of the eye, resulting in the breakdown and clumping of proteins within the lens. However, several other factors can contribute to cataract formation, including:

**Age:** Cataracts are more prevalent in individuals over the age of 60, although they can occur at any age.

**Genetics:** A family history of cataracts increases the likelihood of developing the condition.

**Diabetes:** People with diabetes are at a higher risk of developing cataracts due to elevated blood sugar levels.

**UV Radiation:** Prolonged exposure to sunlight, especially without adequate eye protection, can contribute to cataract development.

**Smoking and alcohol:** Long-term smoking and excessive alcohol consumption have been associated with an increased risk of cataracts.

#### **Symptoms and Impact on Vision**

Cataracts often develop slowly and may initially have a minor impact on vision. However, as the condition progresses, common symptoms include:

Corresponding Author:

Miten Jay,
Department of Ophthalmology,
Stanford University Medical
Center, Palo Alto, California; Email:jaymiten@stanford.edu

How to Cite This Article:

Jay M. Cataract Disease: Causes, Symptoms, and Modern Treatment Approaches J Evid Based Med Healthc2023;10(02):1-2.

Received: 22-Mar-2023; Manuscript No: JEBMH-23-99474; Editor assigned: 24-Mar-2023; PreQC No. JEBMH-23-99474 (PQ); Reviewed: 07-Apr-2023; QC No. JEBMH-23-99474; Revised: 14-Apr-2023; Manuscript No. JEBMH-23-99474 (R); Published: 25-Apr-2023; DOI:10.18410/jebmh/2023/10/02/84.

Copyright © 2023 Jay M. This is an open access article distributed under Creative Commons Attribution License [Attribution 4.0 International (CC BY 4.0)]

Jebmh.com Commentary

- Blurred or hazy vision.
- Sensitivity to glare, particularly in bright sunlight or while driving at night.
- Difficulty seeing in low light conditions.
- Double vision in one eye.
- Colors appearing faded or yellowed.

## **Diagnosis and Assessment**

Experiencing any symptoms associated with cataracts, it is crucial to consult an ophthalmologist for a comprehensive eye examination. The diagnosis typically involves:

**Medical history and symptoms:** The ophthalmologist will inquire about your medical history and discuss any symptoms you may have been experiencing.

**Visual acuity test:** The doctor will conduct a visual acuity test to assess the sharpness and clarity of your vision.

**Slit-lamp examination:** Using a specialized microscope called a slit lamp, the doctor will examine the structures of your eye, including the lens, to determine the presence and severity of

cataracts.

### **Treatment Options**

**Non-surgical approaches:** In the early stages of cataract development, some non-surgical interventions may help manage the symptoms, although they cannot reverse or eliminate cataracts. These approaches include:

**Brighter lighting and magnification:** Adequate lighting and magnifying lenses can alleviate vision difficulties caused by cataracts.

**Surgical treatment:** Surgery is the only effective treatment for cataracts, and it becomes necessary when the condition significantly impairs vision and affects daily life. The surgical procedure, known as phacoemulsification

**Anesthesia:** Local anesthesia is administered to numb the eye, and in some cases, sedation may be given to help the patient relax. During cataract surgery, the clouded natural lens is removed and replaced with an artificial intraocular lens (IOL). This IOL not only restores clear vision but also provides an opportunity to correct other existing refractive errors.