

OPHTHALMOLOGY SERIES

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CATARACT

白
內
障



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**THE NUMBER ONE CAUSE OF
PREVENTABLE BLINDNESS
IN THE WORLD**

**FIND OUT MORE
ABOUT TREATMENT FOR CATARACT**



MIRI CITY
MEDICAL CENTRE
www.mcmcmiri.com

**EYE
CLINIC**



Cataract simply means lens opacity

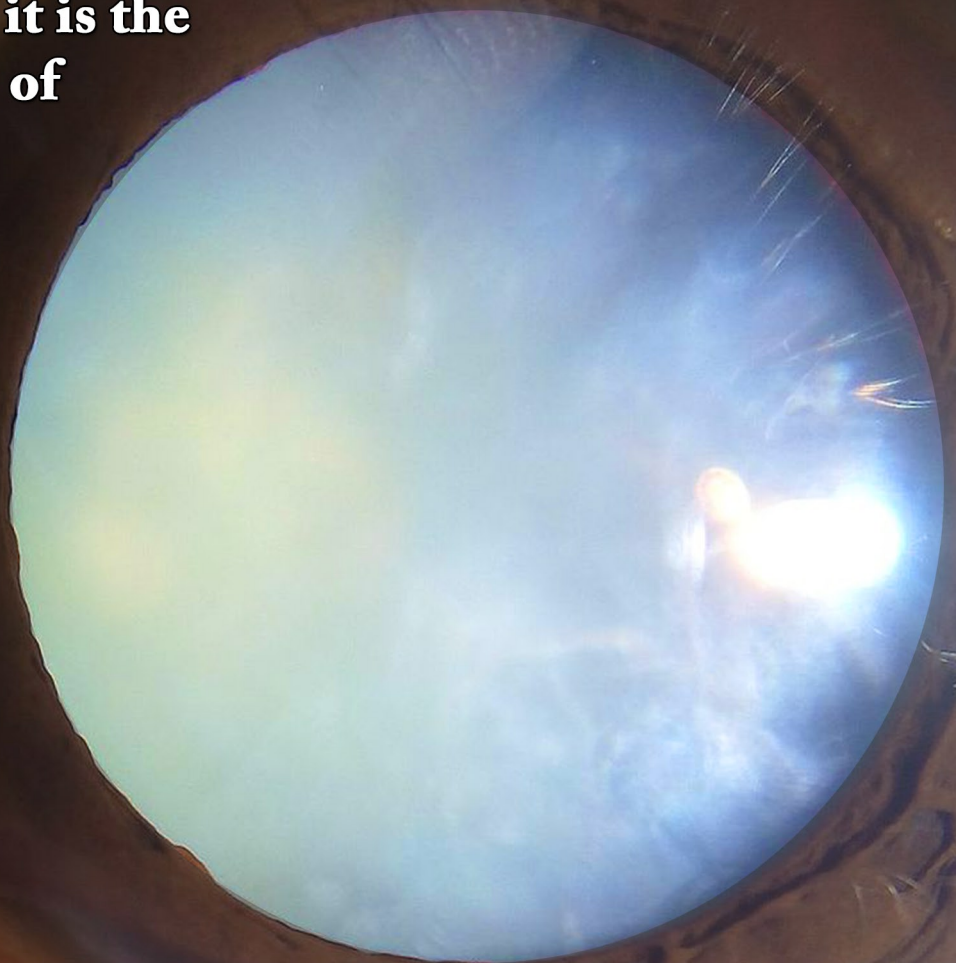
白内障就是浑浊了的晶状体

**Results in reduction of vision
Often develops slowly and painlessly**

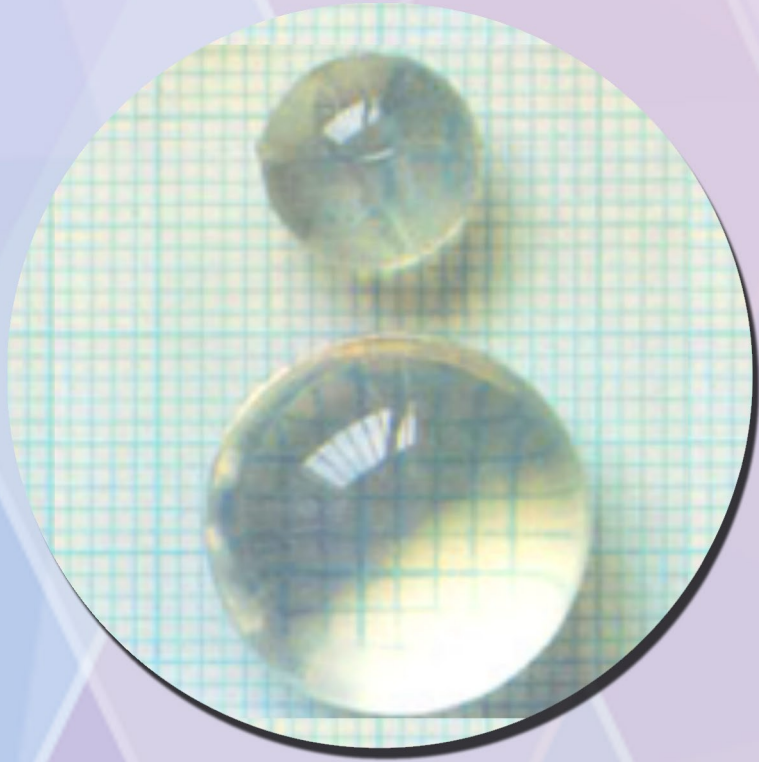
**Leads to permanent blindness
when left untreated, it is the
Number ONE cause of
REVERSIBLE
blindness in
the world
(WHO 2010)**

**It complicates eye
examination by your
Doctor, especially if
you are Diabetic**

**It is associated with
increased risk of ACCIDENTS,
INJURIES and other social problems**



CATARACT (Opaque/Cloudy Lens)

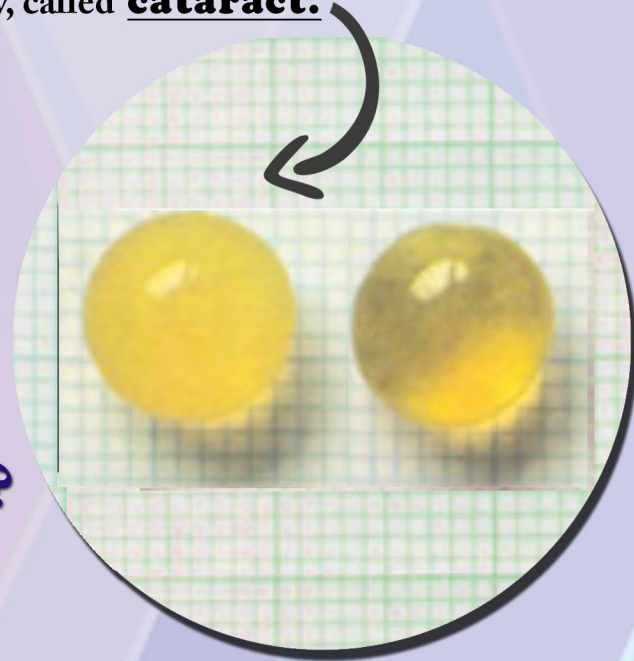


I. The human lens is a structure in the eye which is equivalent to the lens system in a camera.

II. Its function is to focus the images onto the retina.

III. Young lens (<40 years old) are flexible and able to change its shape and power, allowing us to see clear images at all distances.

IV. Damage to the lens will cause lens opacity, called **cataract**.



WHAT is the CAUSE of Cataract?

It is due to our aging process.

70% of people aged above 70 have cataract.

It is almost an inevitable process of aging.

OTHER CAUSES:

Diabetes

Drug induced

Trauma

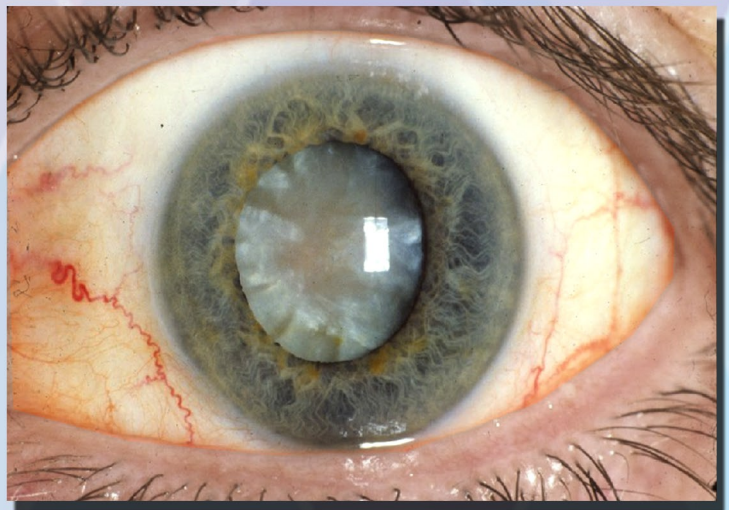
Injury

Radiation

Inflammation

Genetics

Idiopathic cause



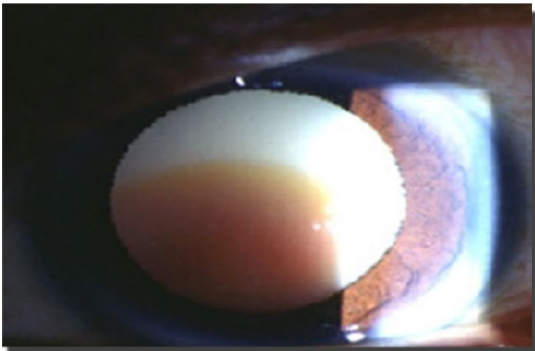
CATARACT TREATMENT

The **ONLY** effective treatment of cataract is by **surgical removal** of the cataract and **secondary lens implantation**

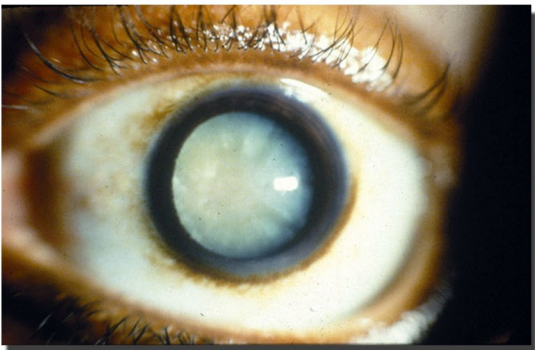
However, not all cataract needs treatment



If the cataract is mild and your vision is only mildly affected, and as long as you can tolerate the symptoms, surgery can wait.



Significant opacity warrants treatment as this will result in symptoms such as blurry vision, reduced contrast, double vision, dim vision and more.



If the cataract is thick and dense (hyper-mature and mature cataract), it can lead to serious conditions like glaucoma or severe inflammation of the eye, eventually leading to blindness.

Cataract surgeries in mature and hyper-mature cataract can be tricky and carries higher risks of complications during surgery.

Thus, do not wait too long before deciding on cataract surgery!

Phacoemulsification Surgery

The most common form of cataract surgery.

It is the **gold standard** treatment for cataract using **high frequency ultrasound technology** to crush the cataract and aspirate it through a few incisions less than 2.75mm within 15 minutes.

It is one of the safest and most performed surgery in the world.

利用超声波把浑浊的晶状体击碎，
然后吸出。
把先进的镜片注射进入，
代替晶状体的功能。

Cataract Surgery is
painless

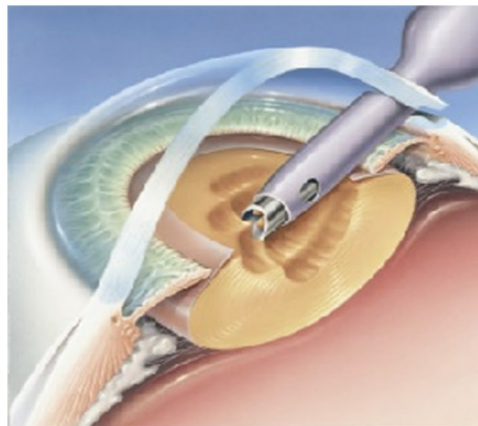
with topical anaesthesia

It is like undergoing a
dental procedure but
you can talk.

The procedure is also
short and painless.

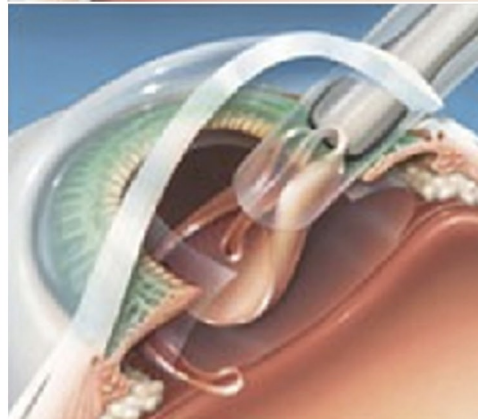


Main Steps in Cataract Surgery



01

Using Ultrasound, the opaque lens is broken up into small pieces and aspirated out.

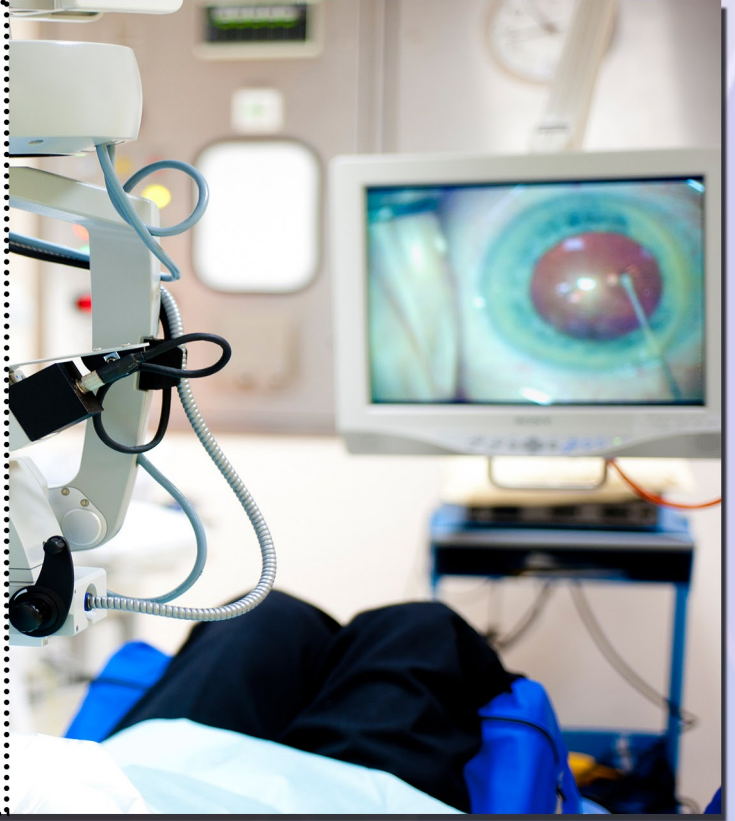


02

The Intraocular lens (usually foldable) is injected into the eye to replace the function of the original lens.

Choices of Intraocular Lens

- 01 Monofocal
(most common)
- 02 Monofocal
Toric
- 03 Bifocal
Bifocal Toric
- 04 Multifocal
Toric multifocal



**Which is BEST
for
YOU?**

Please speak with our doctor !

What is it like after cataract surgery?

How to take care of my eye after cataract surgery?

What are the drawbacks of undergoing cataract surgery?

The background of the image is a dark, deep blue or black, filled with numerous out-of-focus light sources. These lights appear as soft, glowing circles of various colors, including warm tones like orange, yellow, and red, as well as cooler tones like teal, green, and purple. The lights are scattered across the frame, with some appearing in horizontal bands, suggesting a distant cityscape or a festive light display. The overall effect is a dreamy, bokeh-like aesthetic.

WITH CATARACTS



AFTER CATARACT SURGERY

to see the world again