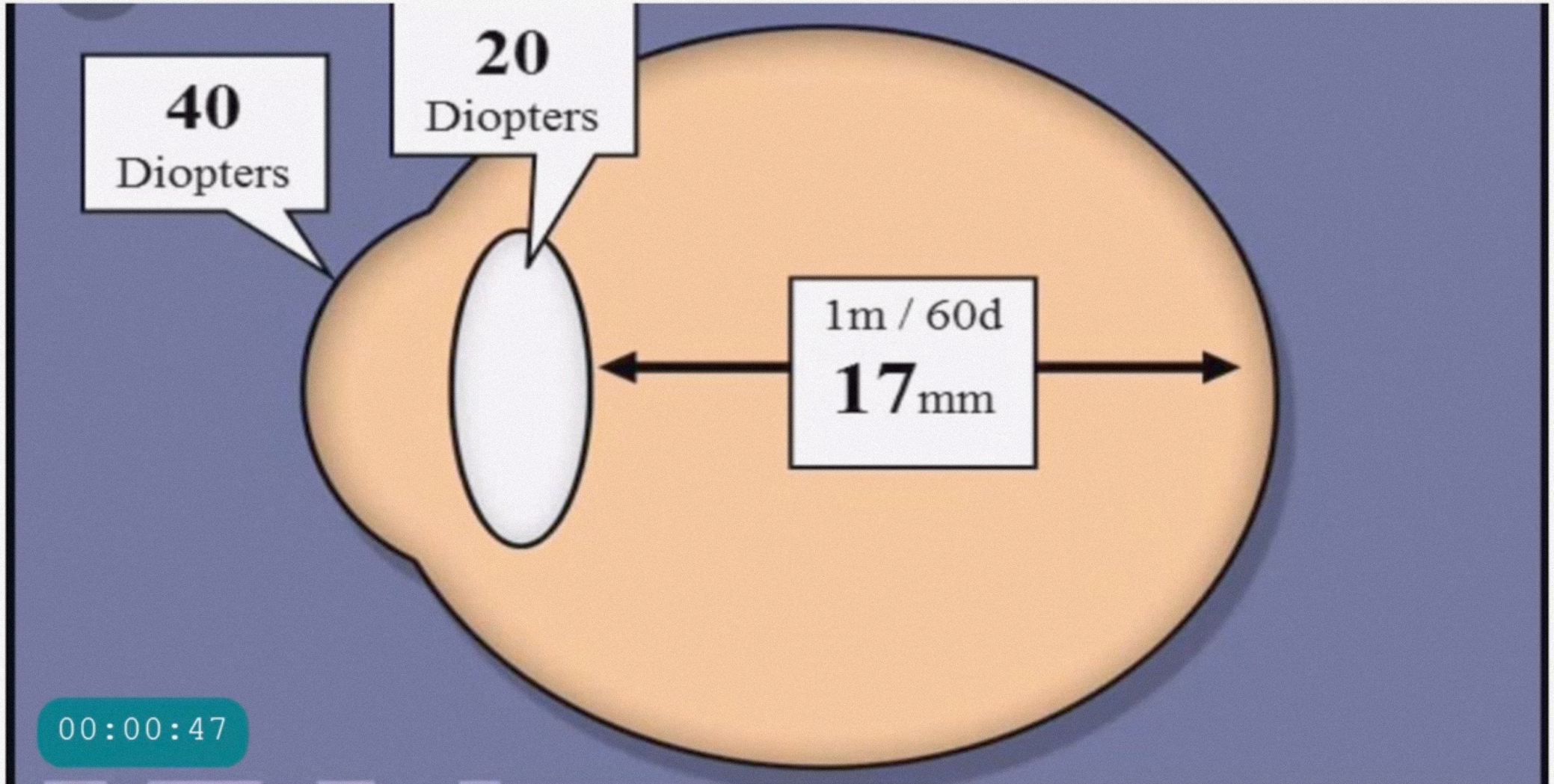


What is MYOPIA & its TYPES

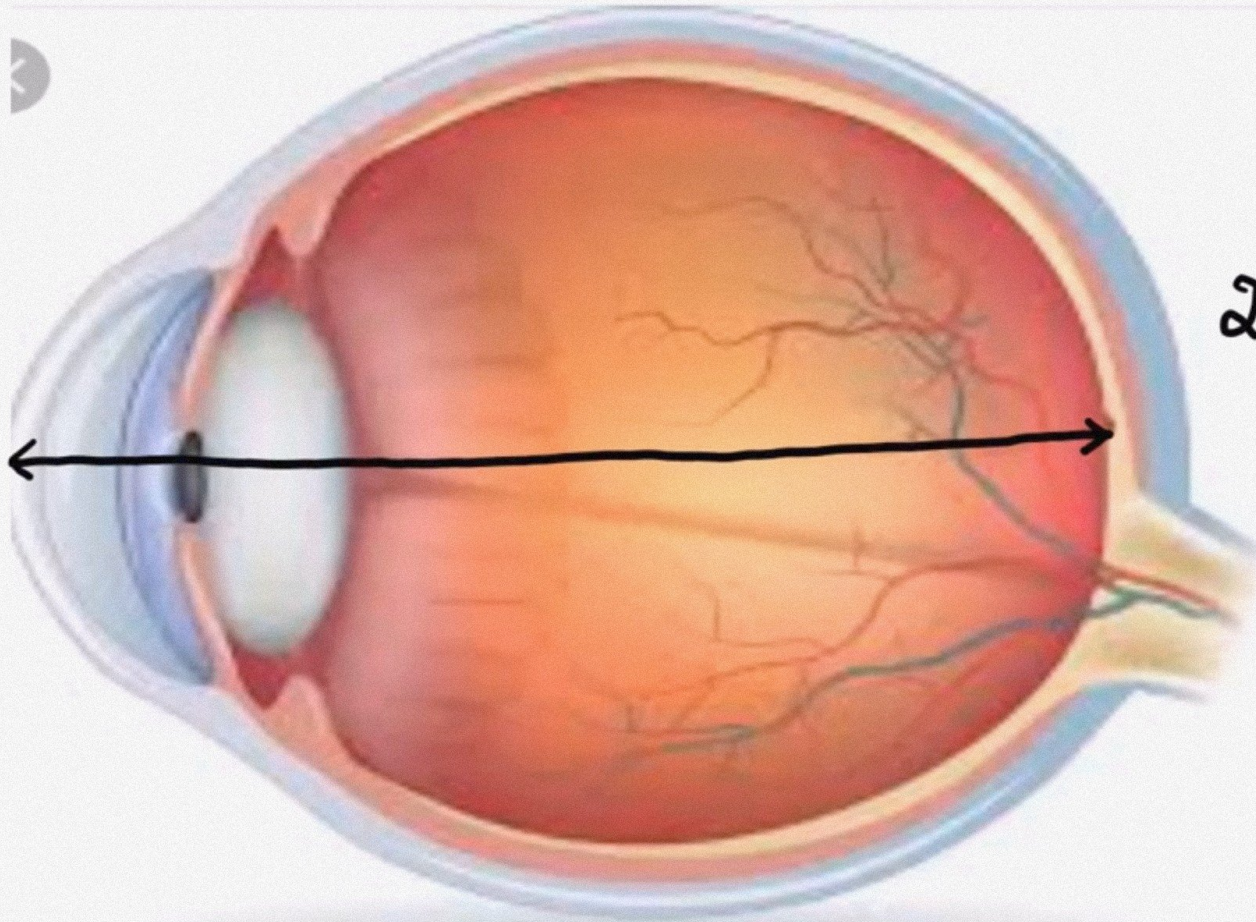
00:00:24





00:00:47





22-24.5mm

Avg = 23.05
mm

00:01:39



- Myopia results from an eye having excessive refractive power for its axial length.
- Relatively long axial length or
- Increased dioptric power of one or more of the refractive element

00:02:10



1
diopter

2
diopters

10
diopters

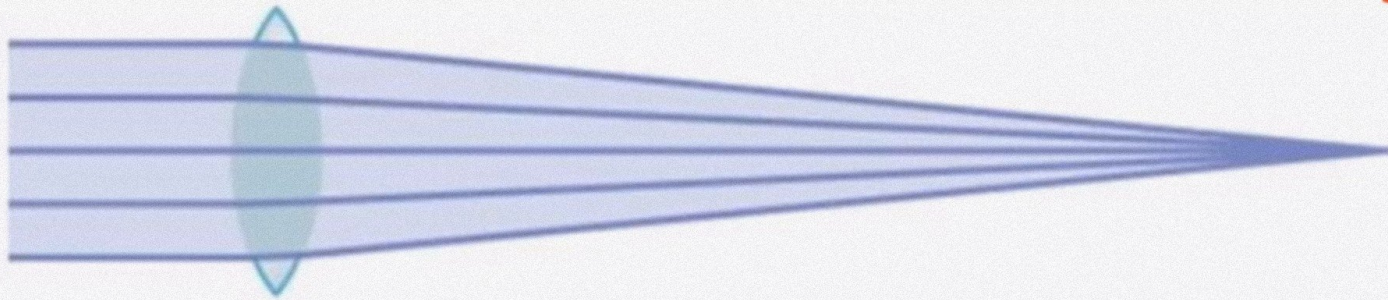
RETINA

1 meter

00:02:44

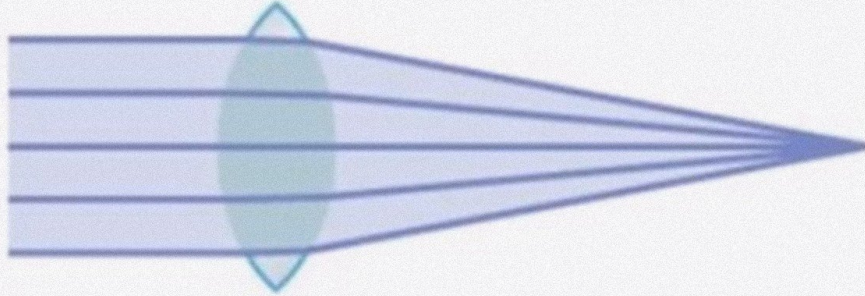


✓ 1 diopter

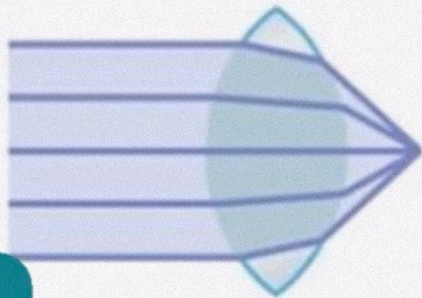


RETINA

2 diopters



10 diopters



**FOCAL POINT =
 $1 \backslash$ DIOPTRIC POWER**

00:03:01

1 meter



RETINA

1
diopter

$1\text{ m} = 100\text{ cm}$

2
diopters

$\frac{1}{2} = 50\text{ cm}$

10
diopters

10cm

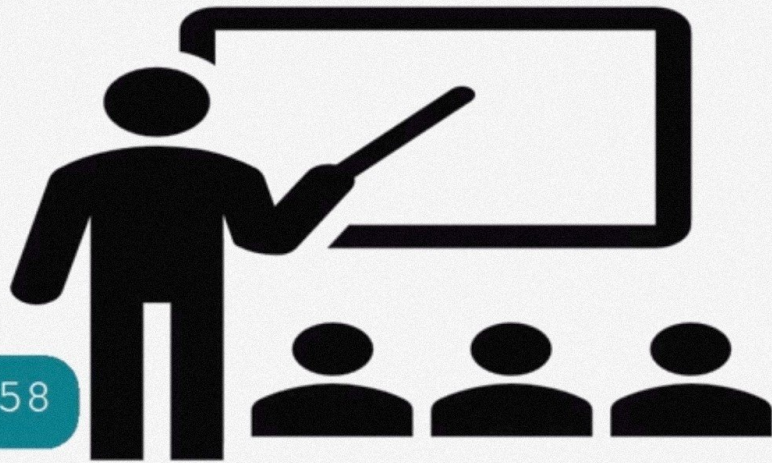
FOCAL POINT =
 $1 \backslash$ DIOPTRIC POWER

1 meter

00:03:45



LET'S CLASSIFY MYOPIA!!



00:04:58



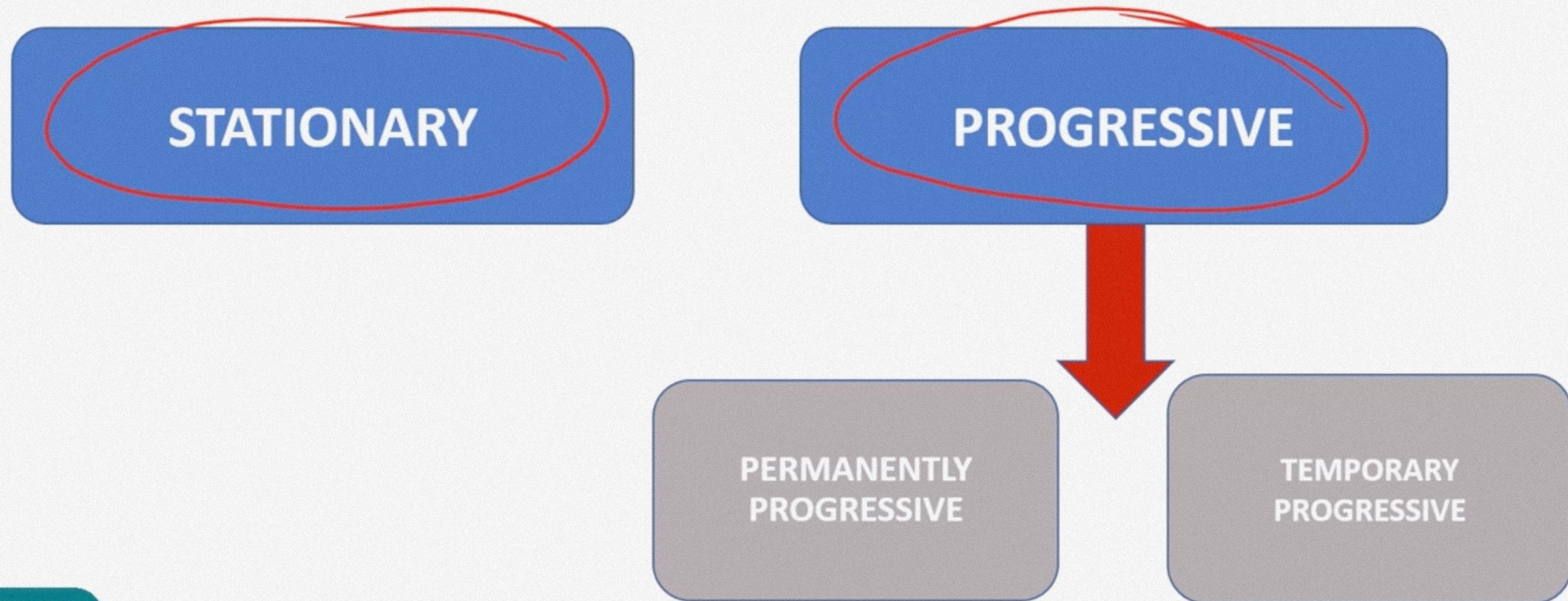
BASED ON

- Rate of myopic progression
- Anatomical classification of myopia
- Degree of myopia
- Physiological and pathological myopia
- Age of myopia onset

00:05:19



CLASSIFICATION BASED ON RATE OF PROGRESSION



00:05:33



STATIONARY MYOPIA

- Stationary myopia is generally of low degree (-1.50 to -2.00 D)
- Arises “in the years of development.”
- Remains stationary in adulthood

00:06:03



TEMPORARY V/S PERMANENT PROGRESSIVE

- Temporarily progressive myopia generally arises in the early teens and progresses until the **LATE 20S**
- After this age, the rate of myopia progression approaches zero.

- Permanently progressive myopia ascends rapidly until around 25 to 35 years of age, and thereafter **ADVANCES MORE SLOWLY.**

00:06:14



ANATOMICAL CLASSIFICATION OF MYOPIA

00:07:01



AXIAL

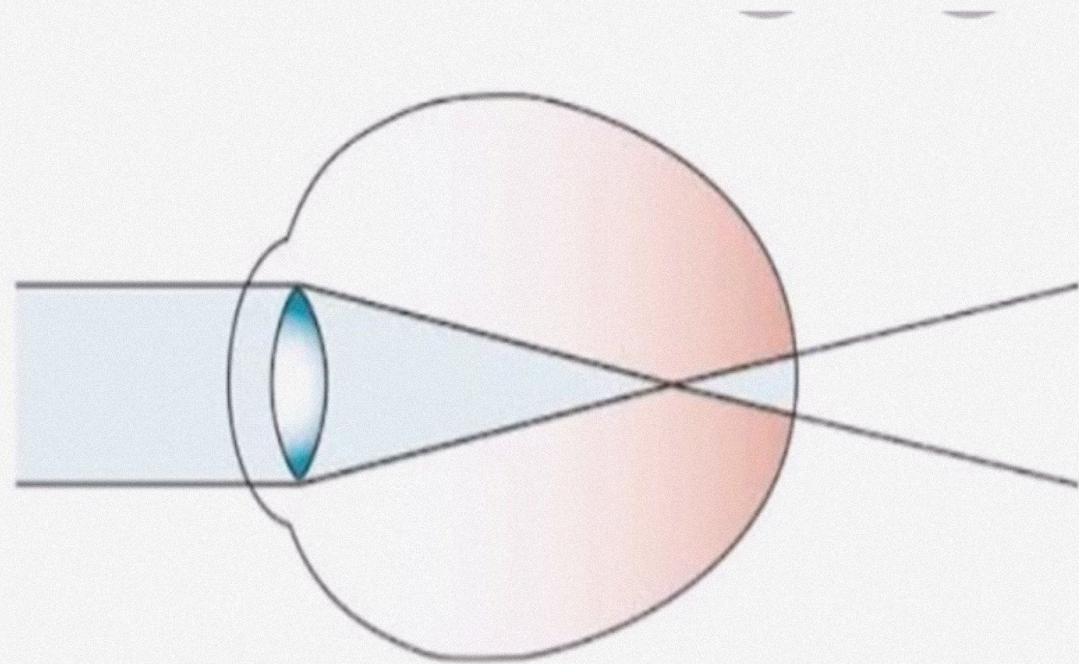
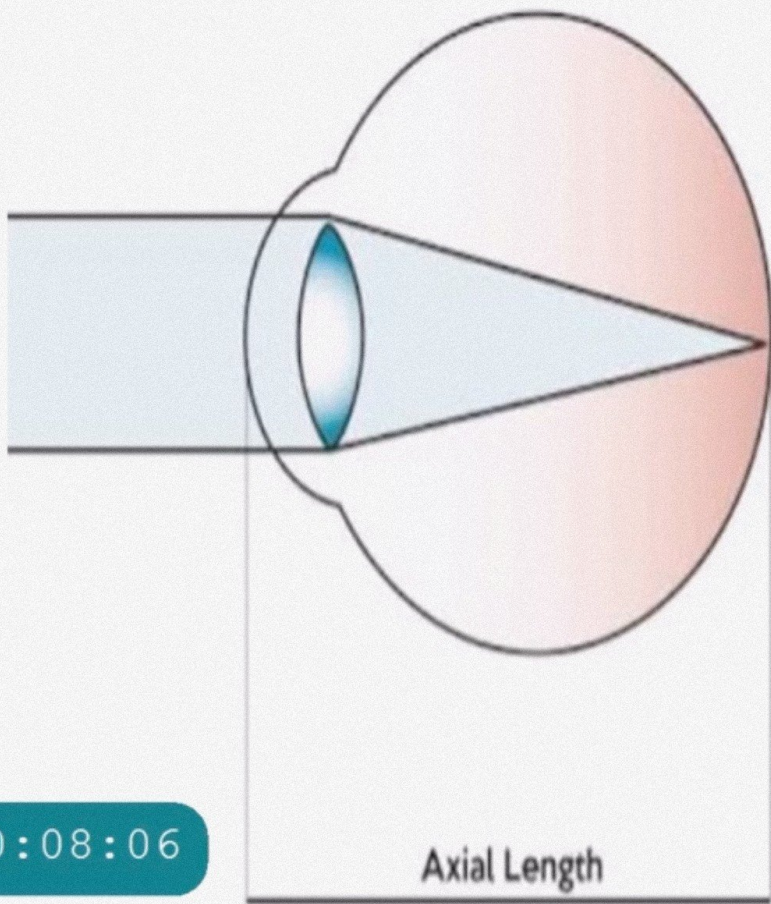
REFRACTIVE

CURVATURAL

INDEX

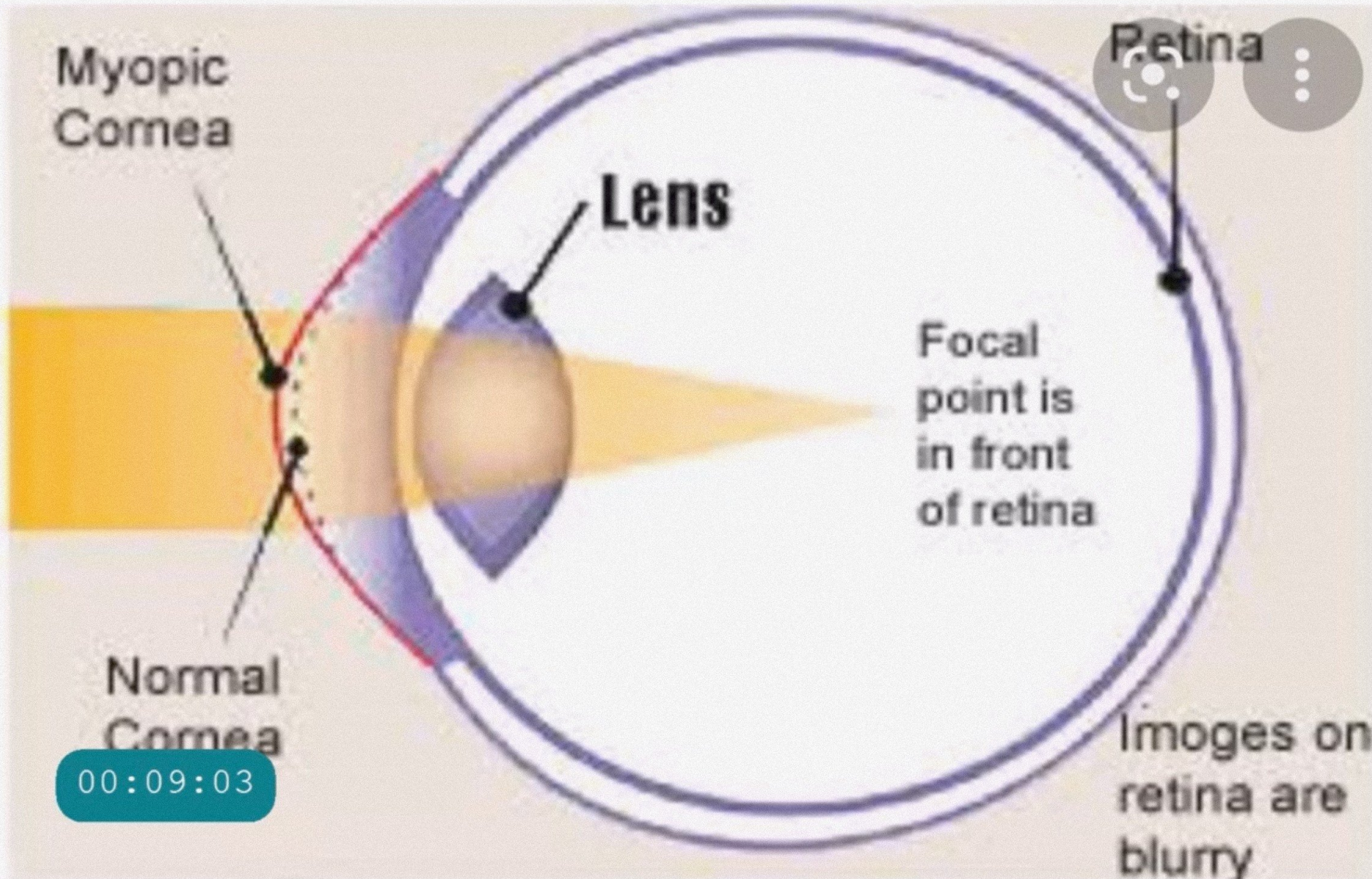
00:07:25





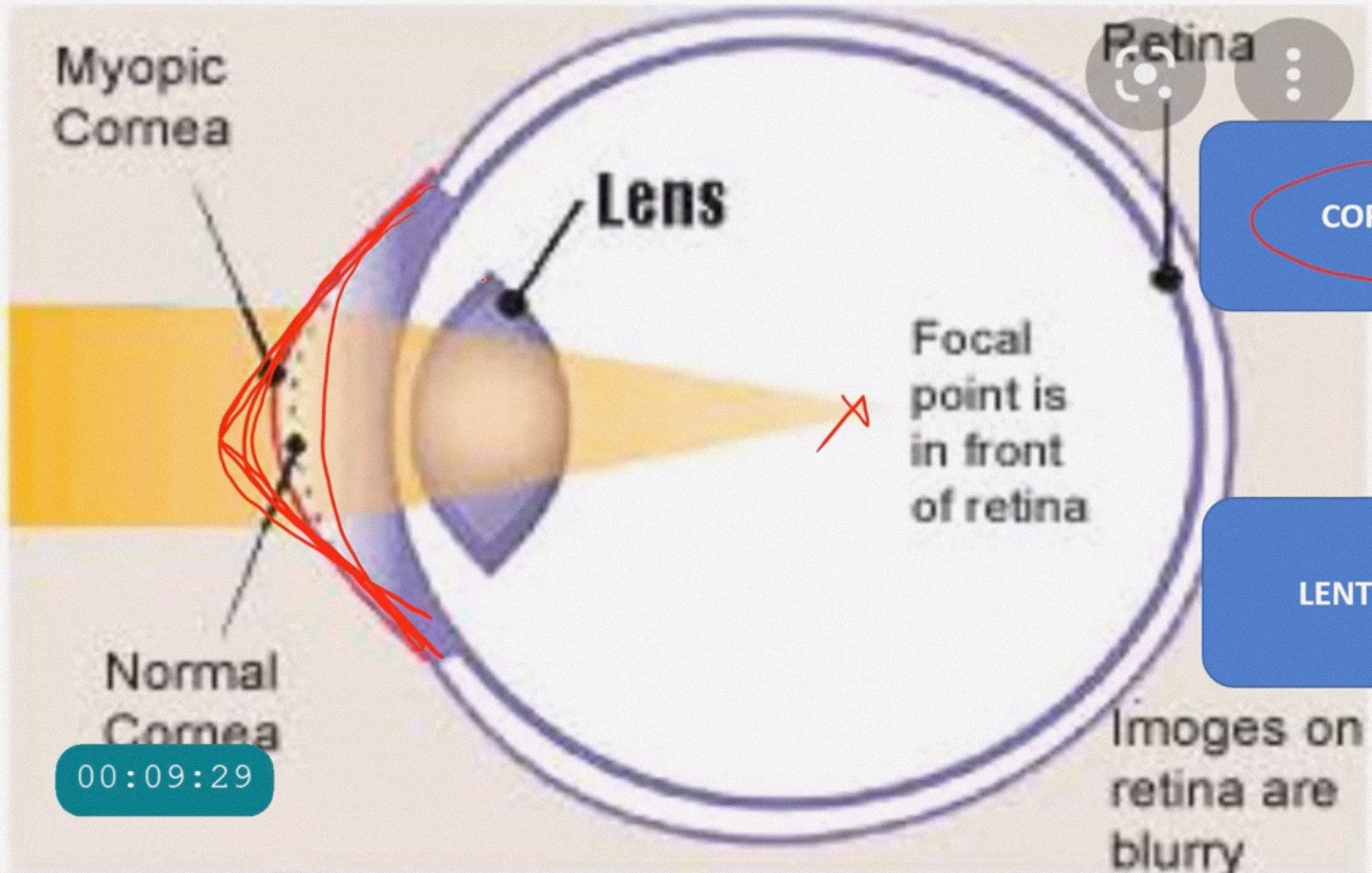
00:08:06





00:09:03



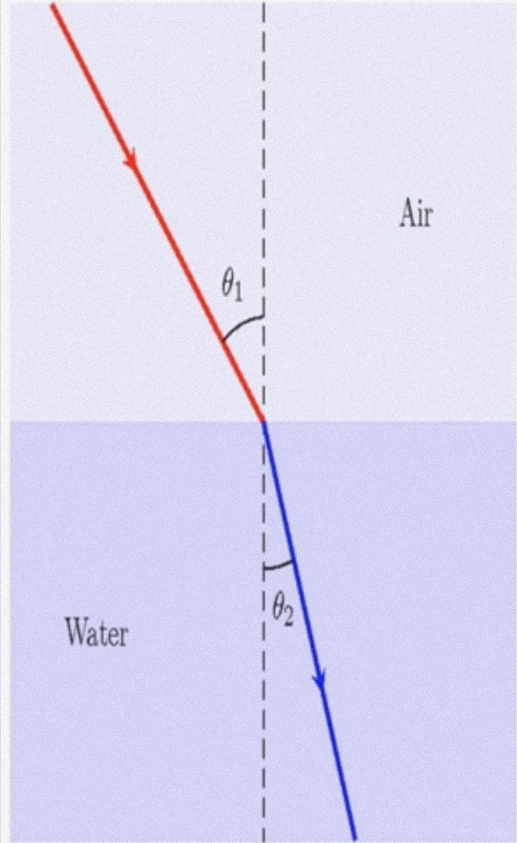
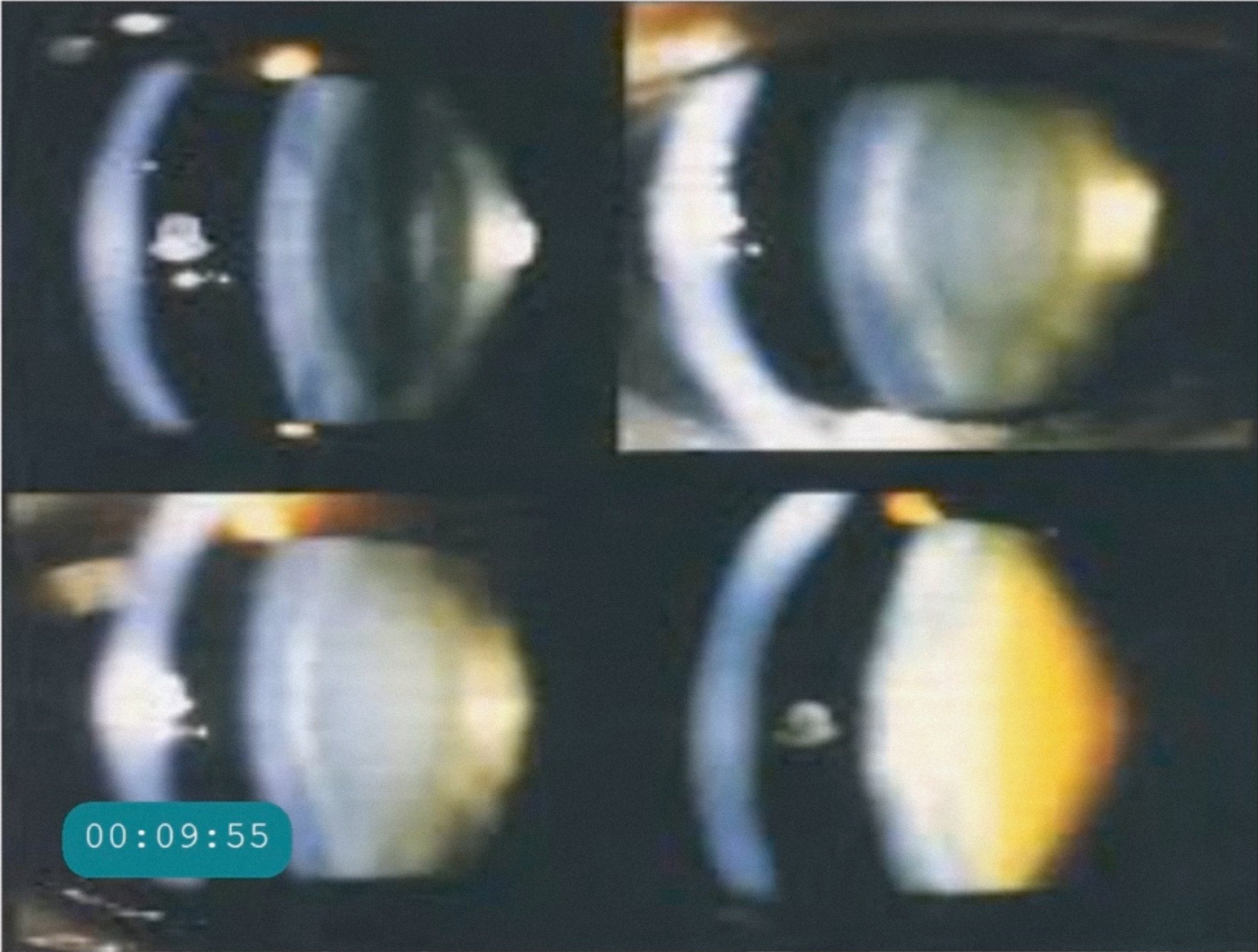


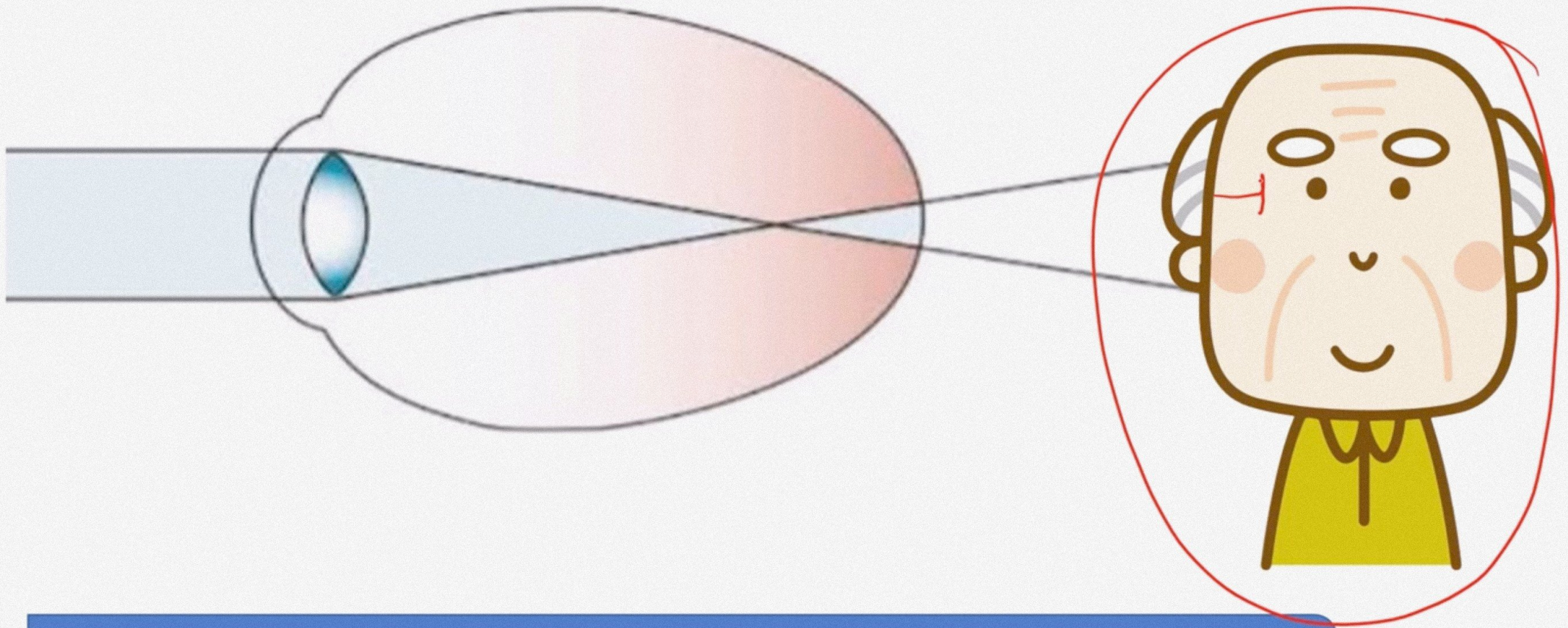
CORNEAL MYOPIA

LENTICULAR MYOPIA

00:09:29







PRESBYOPIC PATIENT + NUCLEAR SCLEROSIS = INDEX MYOPIA (SECOND SIGHT)

00:11:27



CLASSIFICATION BASED ON DEGREE OF MYOPIA

00:00:34



BASED ON DEGREE OF MYOPIA

LOW MYOPIA :- UPTO 3 D

• MODERATE MYOPIA
:- 4 -5 D

HIGH MYOPIA :- 6 AND
HIGHER

00:00:02



PHYSIOLOGICAL V/S PATHOLOGICAL MYOPIA

00:00:09

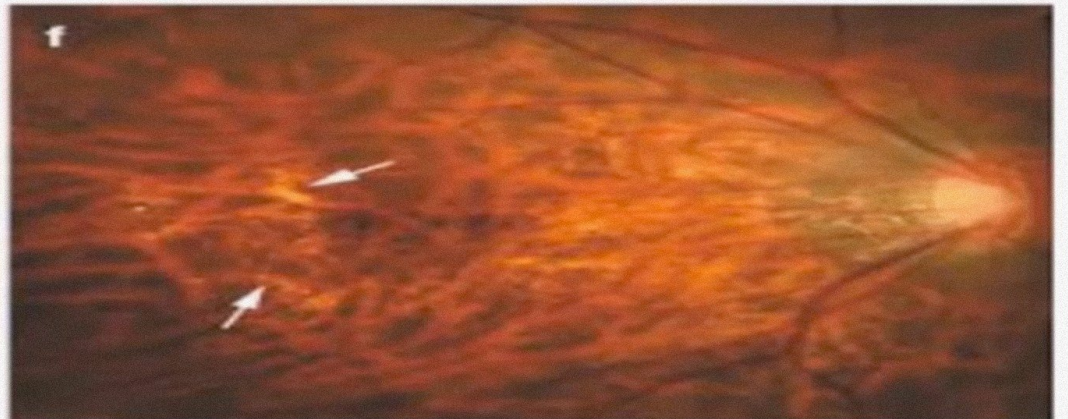
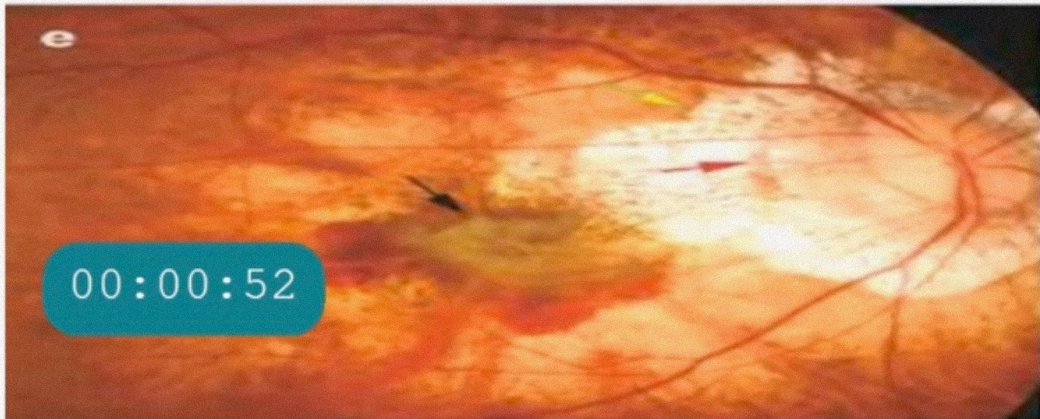
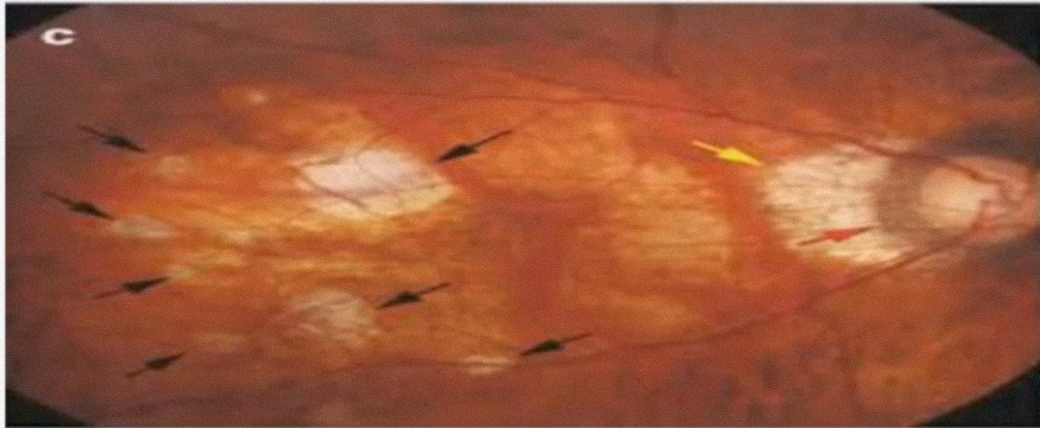
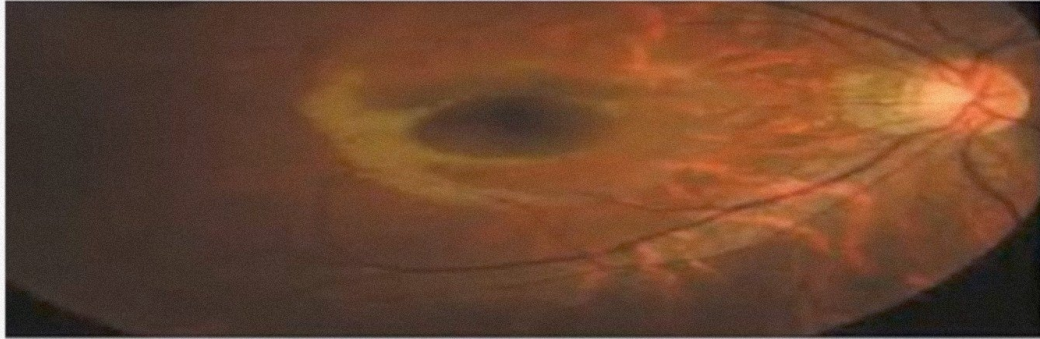


PHYSIOLOGICAL v/s PATHOLOGICAL

- Myopia without any ocular pathology
- Pathological myopia may also be described as **malignant or degenerative myopia**.
- This is most frequently found in high (>6 D) degrees of myopia

00:00:16





CLASSIFICATION BASED ON AGE OF ONSET

00:01:07



- **CONGENITAL MYOPIA**-Myopia is present at birth and persists through infancy.
- **YOUTH-ONSET MYOPIA**-The onset of myopia occurs between 6 years of age and the early teens.
- **EARLY ADULT-ONSET MYOPIA**-The onset of myopia occurs between 20 and 40 years of age.
- **LATE ADULT-ONSET MYOPIA**-Myopia onset occurs after 40 years of age.

00:01:12



SPECIAL TYPES OF MYOPIA

00:00:00



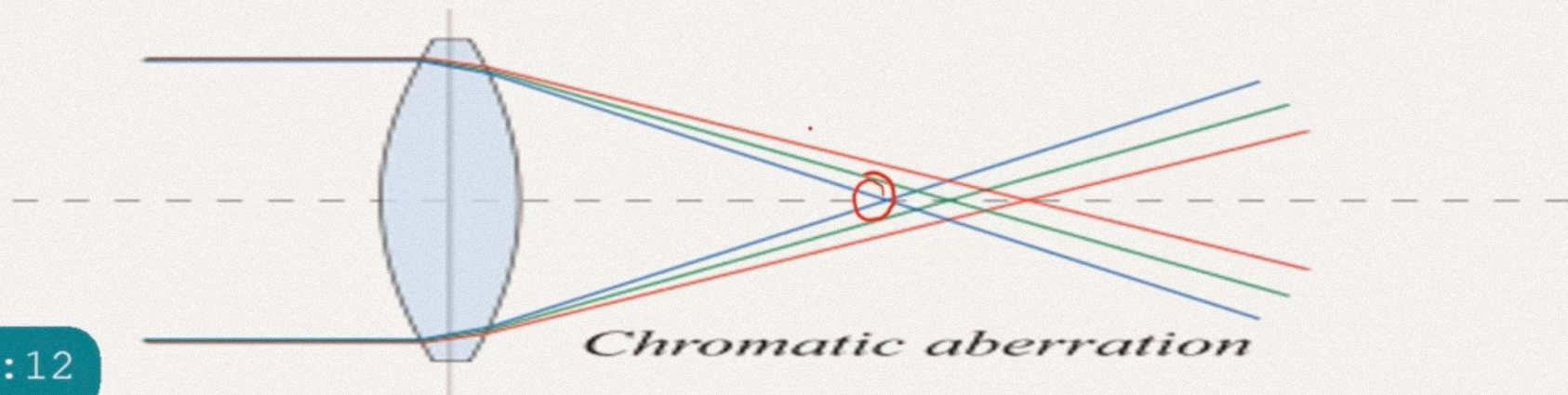
NIGHT MYOPIA

- The phenomenon of increased myopia under low luminance conditions.
- Night myopia is produced by an **INCREASED ACCOMMODATIVE RESPONSE** (typically on the order of 0.50 to 1.00 D) under degraded stimulus conditions.

00:00:06



- Changes in chromatic aberration.
- Its peak sensitivity shifts from approximately 555 nm to around 510 nm. This change in sensitivity is termed the **PURKINJE SHIFT**.
- Eye becomes more sensitive **to BLUE**
- Therefore appears to be more myopic than it is under photopic viewing conditions



00:01:12



PSEUDOMYOPIA

- Pseudomyopia has been defined as a reversible form of myopia that results from a **SPASM OF THE CILIARY MUSCLE**.
- The excessive accommodative response produces an apparent myopic shift that will disappear when a cycloplegic agent is administered to produce relaxation of accommodation.

00:02:02

