

Eye Donation & Eye Banking

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What is Blindness? What is Corneal blindness? What is Eye donation? What is Eye banking? When to Make an eye donation? How to Make an eye donation? Who can Donate eyes? What is Corneal transplantation? How can You help the blind?

BLINDNESS



Unilateral blindness & Bilateral blindness

BLINDNESS



BLINDNESS

Worldwide

- 50 million

India

- I0 million

CORNEAL BLINDNESS

Worldwide - 8 million

India

- I.I million

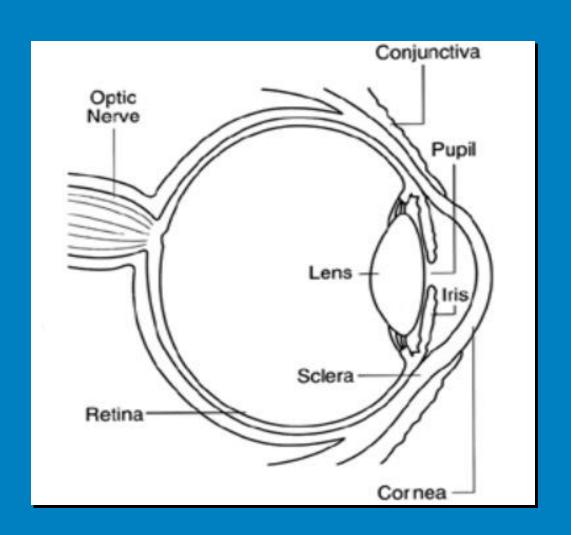
BLINDNESS



CAUSES

Cataract
Refractive error
Retinal diseases
Glaucoma

Corneal diseases



Cornea



Cornea is a clear transparent outer layer of the eye.

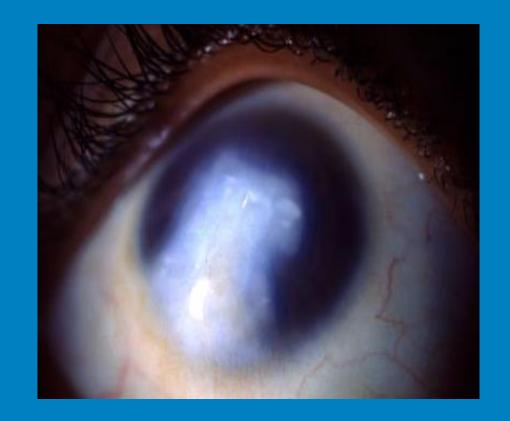




Magnitude of the problem



- 1.1 million blind in India
- Children & young adults
- 30,000 40,000 new cases/year





Children awaiting for cornea















Eye Donation scenario in India LYPE



Requirement: 100,000 transplantable

corneas

37,000 (EBAI) **Procurement:**

50% **Utilization:**

Eye Donation scenario in Twin cities

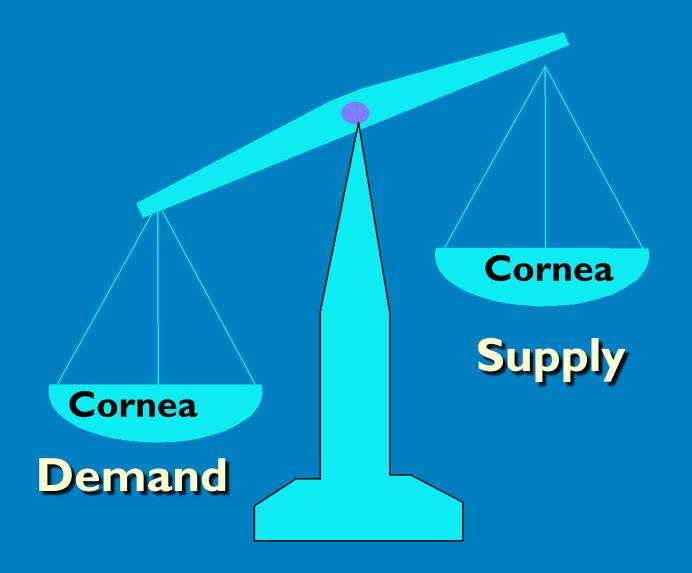


Population: 4.2 million

Death rate: 29,600 deaths (8 per 1000 population)

Procurement: 650 donors (2%)







Why there is shortage of donor corneas? **Facts**

- Cornea is not commercially available
- Only an eye donation from a deceased can make corneas available



Why there is shortage of donor corneas?

Myths

- Body is incomplete without cornea
- No eyes when reborn
- No right to donate eyes even after death
- Religion object to eye donation



Why there is shortage of donor corneas?

Myths

- Eyes are donated when alive
- Causes disfigurement of face
- Causes delay in funeral arrangement
- Body should be taken to eye surgeon
- Only those who have pledged can donate eyes



Why there is shortage of donor corneas?

- Lack of awareness
- Lack of community participation & social responsibility
- Lack of cooperation from Medical 8 Paramedical personnel
- Needs motivation while in grief
- Lack of favorable laws



Who can be an Eye Donor?

Persons of any age, sex, spectacle wearers, those with diabetes, or hypertension can donate eyes after death



Is the whole eye removed?

NO. Only cornea is removed from the eye because only cornea is used for transplantation



How soon should corneas be removed after death?

Within 9 hours of death



Is family consent essential to make an Eye Donation?

- The consent of the next of kin is essential for removing the eyes after a person's death.
- It is therefore important to share your wish to donate eyes with your family members, when one is alive.



Is it essential to sign a pledge card to be an eye donor?

NO. Consent of surviving family member is needed for an eye bank to remove eyes from a deceased person

More important than pledging is to convince your family member about eye donation and request them to make it happen after your death



Do religions support eye donation?

YES. All religions support, approve, and consider eye donation as the most supreme form of gift



Is it necessary to take the deceased to the eye surgeon to make an eye donation?

NO. The eye bank team will recover eyes wherever donor is, be it a residence, hospital, mortuary, road, or burial ground



Are all corneas collected suitable for transplantation?

NO. Corneas medically unsuitable for transplantation are used for research & training



Why small amount of blood is collected from the donor?

- The donor should be screened for infectious diseases.
- Only corneas from donors free of contagious diseases are used for transplantation



Will the donor family know the identity of the recipient and vice versa?

NO. The donor-recipient information is maintained confidential as per the code of ethics, throughout the world



Is any fee paid to the donor for the corneas donated or fee collected from the recipient for the corneas received?

NO. It is illegal to buy or sell corneas., or tissues



How many patients are benefited through eye donation made by one donor?

Two corneally blind persons benefit from a single donor

Who cannot donate eyes?



- Those with infectious diseases like
- Hepatitis B & C Virus, AIDS, & Septicemia.
- Death due to Blood Cancer
- Death due to unknown cause



Eye Donation Call

Name & Age of the donor

Time of death

Cause of death

Address & Telephone

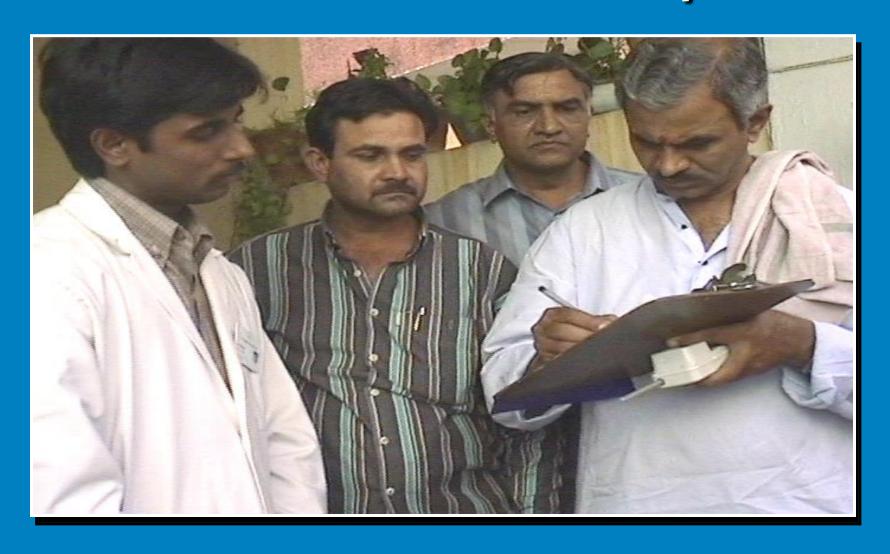


Eye Bank team leaves eye bank within 5 min.





Obtain written consent from family member





Wears gown, mask & gloves



EYE DONATION ACTIVITY [VPI



Create a clean place at the donor site



EYE DONATION ACTIVITY [VPE



Examine the donor



EYE DONATION ACTIVITY [VP]



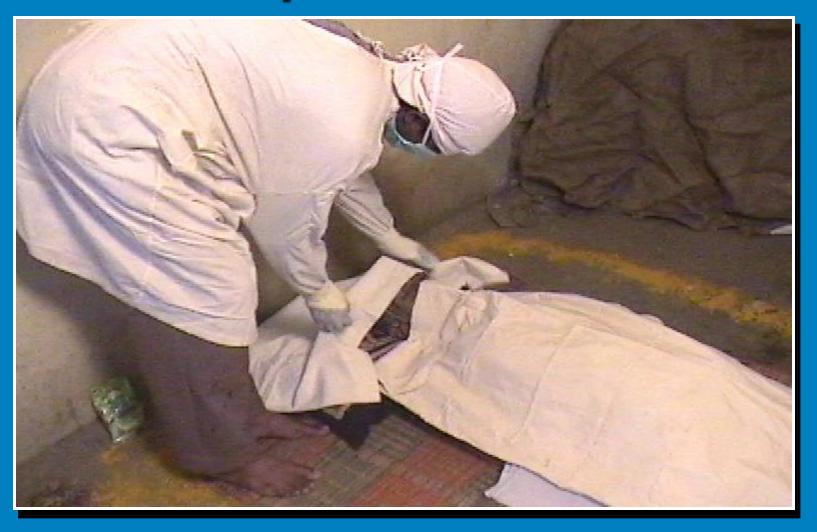
Drape donor body



EYE DONATION ACTIVITY LYPE



Drape donor face





Perform corneal excision





Place cornea in preservation medium



EYE DONATION ACTIVITY (VPE

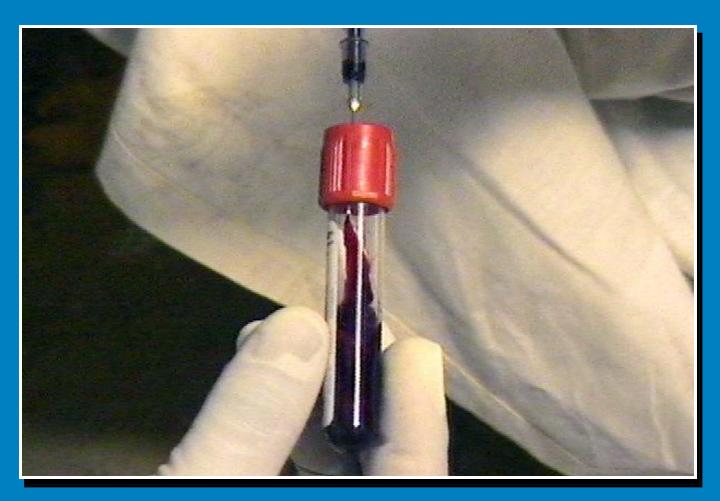


Draw blood from the donor





Transfer blood to test tube for storage





Place corneas and blood in ice box for transport



AN EYE BANK



An eye bank is a voluntary organization that is involved in the procurement, evaluation and distribution of human donor corneas to surgeons for performing corneal transplantation in patients suffering from corneal blindness

EYE BANK FUNCTIONS



- Create public awareness
- Donor cornea procurement
- Donor cornea evaluation
- Donor cornea storage
- Donor cornea distribution

EYE BANK FUNCTIONS



- Public awareness
 Media, news paper, talks, publicity
 materials
- Hospital Cornea Retrieval Program HCRP
 Eye Donation Counselors
 Volunteers, Paid staff
 Motivate family members of a deceased

EYE BANK FUNCTIONS



Donor Cornea Procurement

- Voluntary donors
- Hospital Cornea Retrieval Programme
- Volunteers Lions, Rotary & others



Evaluate donor corneas

Slit lamp biomicroscope

Specular microscope







Perform serological testing of donor blood

- HIV
- HBS Ag
- Syphilis (VDRL)
- · HCV

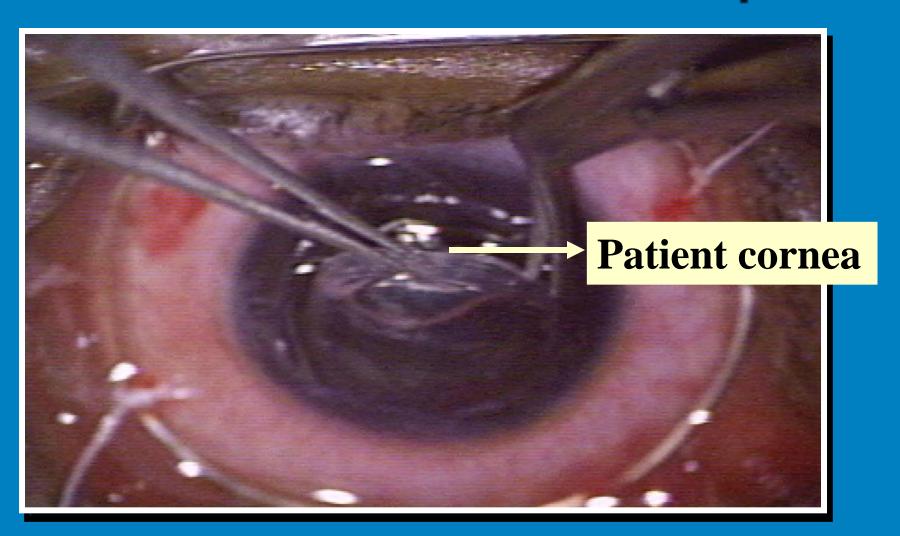






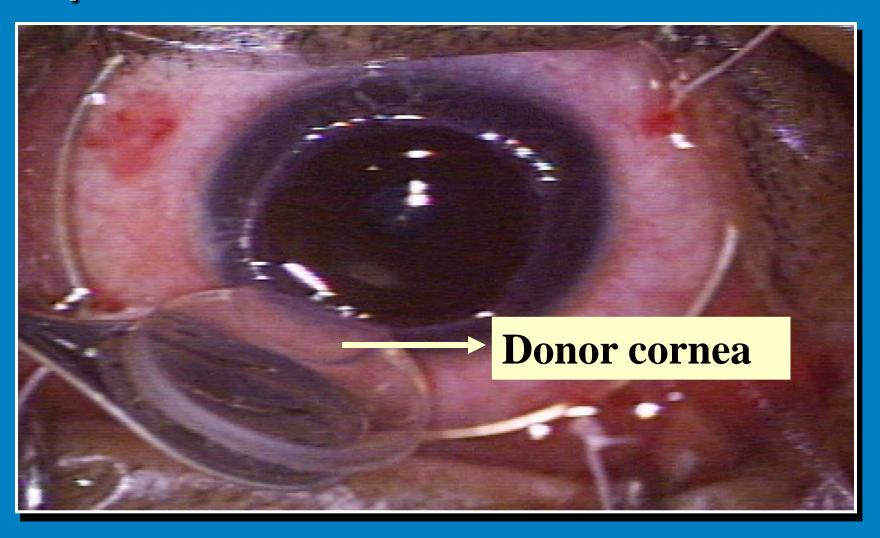


Remove affected cornea from the patient

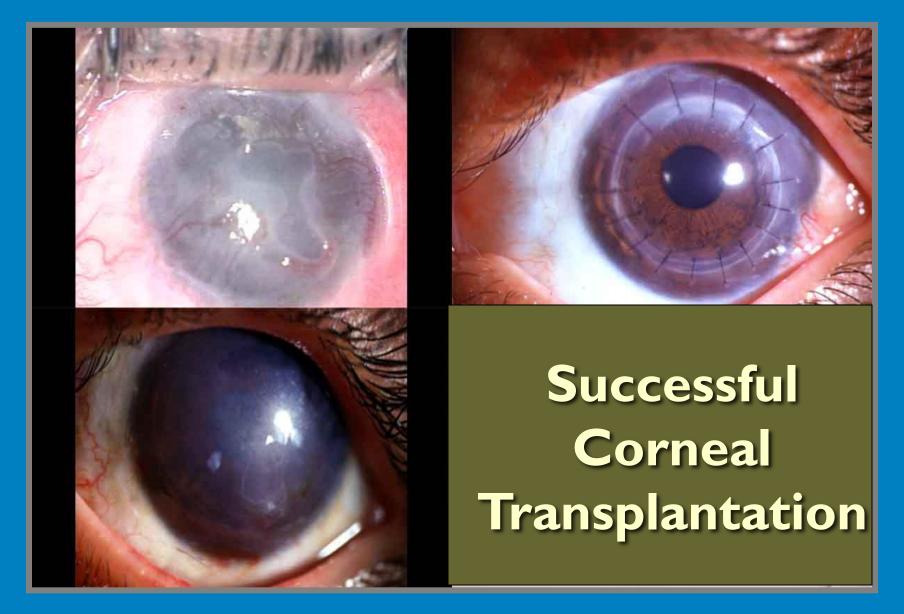




Replace affected cornea with donor cornea







Acknowledge Donor Family



- · "Thank You" Letter
- Certificate of "Appreciation"
- Request for "expression of feeling" as a donor family member who enabled eye donation to let a blind regain sight

Donor Family Expression



First of all let me thank the person who approached me and gave me the opportunity of donating eyes of my husband. This thought of donation would not have come to me at that shocking period....."



When you witness a death......

Try to motivate the family, or, call
the eye bank for a counselor

Phone: 1919, 23548266, 9849545822

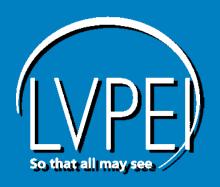


Eye Donation

Make it your family tradition

Thank you!





LV Prasad Eye Institute www.lvpei.org

Excellence

Equity

Efficiency