LASIK Eye Surgery
Overview

- LASIK - Laser in Situ Keratomileusis
- Subdivision of refractive surgery
  - Corrects myopia, hyperopia, and astigmatisms
- Costs about $1500-$2500 per eye
  - Various according to location and surgeons experience
- Machine costs between $200,000-$500,000
History

1948- Father Waclaw experimented with corneal curvature

1964- Professor Barraquer he introduced keratomileusis

1973-1983- IBM made the excimer laser

1996- FDA approved LASIK surgery

2001- Wavefront Technology created the IntraLase
Qualifications

• Must be at least 21
• Consistent vision
• Proper eye proportions
• Have myopia or hyperopia or astigmatism
MICROKERATOME

• Used for patients with normal corneal measurements
• Less expensive
• More experienced surgeons

ALL LASER LASIK

• Used for patients with excessively shaped corneas
• Dry eyes or contact lens intolerance
• Anxiety
• More expensive
• Lower Complications
At the beginning of the procedure, the eye is anesthetized with topical eyedrops.

The surgeon then uses a device called Femto second Laser to create a corneal flap on the outer layer of the eye.

After the flap has been created, an excimer laser is used to reshape the cornea.

The corneal flap is replaced.

The eye will heal by itself, and no stitches are necessary.
Complications

- Dry eyes
- Under/Overcorrection
  - Glares/Halos
- Astigmatism
- Corneal flap folds/wrinkles
- Infection
- Blindness is very rare
Future

• Currently looking to improve current technology
  • Find a solution for dry eyes
  • Reduce the qualifications

• Have a laser-less procedure
Works Cited


Questions?