

# Before And After Lasik Eye Surgery

An elective surgery or elective procedure (from the Latin: eligere, meaning to choose) is a surgery that does not involve a medical emergency and is scheduled in advance. Semi-elective surgery is a surgery that must be done to preserve the patient's life, but does not need to be performed immediately.

**Refractive surgery** This can include various methods of surgical remodeling of the cornea (keratomileusis), lens implantation or lens replacement. Refractive surgery is an optional eye surgery used to improve the refractive state of the eye and thereby decrease or eliminate dependency on glasses or Refractive surgery is an optional eye surgery used to improve the refractive state of the eye and thereby decrease or eliminate dependency on glasses or contact lenses. Refractive eye surgeries are used to treat common vision disorders such as myopia, hyperopia, presbyopia and astigmatism. The most common methods today use excimer lasers to reshape the curvature of the cornea

== History ==

Surgeon ) Fidel Pagés (pioneer In medicine, a surgeon is a medical doctor who performs surgery. Performed the first LASIK procedure on a human eye. laparoscopic spine surgery. Ioannis Pallikaris (Greek surgeon. Developed Epi-LASIK. Even though there are different traditions in different times and places, a modern surgeon is a licensed physician and received the same medical training as physicians before specializing in surgery

As of 2018, roughly 9.5 million Americans have had LASIK and, globally, between 1991 and 2016, more than 40 million procedures were performed. However, the procedure seemed to be a declining option as of 2015. Over time, metabolic changes of the crystalline lens fibres lead to the development of a cataract, causing impairment or loss of vision. Some infants are born with congenital cataracts, and environmental factors may lead to cataract formation. Early symptoms may include glare from lights, especially at night, blunting of colors in vision and reduced visual acuity at low light levels.

**Elective surgery** Orange County Register. LASIK Eye Surgery Inglese, Elective surgery or elective procedure is surgery that is scheduled in advance because it does not involve a medical emergency. Semi-elective surgery is a surgery that must be done to preserve the patient's life, but does not need to be performed immediately. Most surgeries are elective, scheduled at a time to suit the surgeon, hospital, and patient. Retrieved 2018-01-24. Archived from the original on 2018-01-25. 2015-08-01. personalize laser eye surgery

LASIK is very similar to another surgical corrective procedure, photorefractive keratectomy (PRK), and LASEK. All represent advances over radial keratotomy in the surgical treatment of refractive errors of vision. For people with moderate to high myopia or thin corneas which cannot be treated with LASIK or PRK, the phakic intraocular lens is an alternative. == Preparation and precautions == Manhattan Eye, Ear and Throat Hospital was granted a charter from the New York Legislature to found a voluntary, non-profit Eye and Ear hospital on May 9, 1869. The hospital was founded based on the purpose "to alleviate the suffering of the poor and the cultivation and diffusion of sound knowledge of all that relates to the diseases of the eye and ear." The founders of this institution included prominent citizens of the time and pioneers in the field of medicine and surgery, a group of 17 men: including 14 laymen... In some countries and jurisdictions, the title of 'surgeon' is restricted to maintain the integrity of the craft group in the medical profession. A specialist regarded as a legally recognized surgeon includes podiatry, dentistry, and veterinary medicine. It is estimated that surgeons perform over 300 million surgical procedures globally each year. The outer layer of the cornea, or epithelium, is a soft, rapidly regrowing layer in contact with the tear film that can completely replace itself from limbal stem cells within a few days with no loss of clarity. The deeper layers of the cornea... == History == In March 2009, the FDA officially recognized the new LASIK standard from The American National Standards Institute (ANSI), entitled "Laser Systems for...

**Post-LASIK ectasia** However, the physiological processes of post-LASIK ectasia seem to be different from keratoconus. The visible changes in the basal epithelial cell and anterior and posterior keratocytes linked with keratoconus were not observed in post-LASIK ectasia. time after LASIK, PRK, or SMILE corneal laser eye surgery. However, the physiological processes of post-LASIK ectasia seem to be different from keratoconus Post-LASIK ectasia is a condition similar to keratoconus where the cornea starts to bulge forwards at a variable time after LASIK, PRK, or SMILE corneal laser eye surgery

**Eye surgery** Eye surgery, also known as ophthalmic surgery or ocular surgery, is surgery performed on the eye or its adnexa. An eye surgeon is responsible for selecting the appropriate surgical procedure for the patient, and for taking the necessary safety precautions. It continues to be a widely practiced class of surgery, with various techniques having been developed for treating eye problems. Eye surgery is part of ophthalmology and is performed by an ophthalmologist or eye surgeon. Eye surgery is part of ophthalmology and Eye surgery, also known as ophthalmic surgery or ocular surgery, is surgery performed on the eye or its adnexa. The eye is a fragile organ, and requires due care before, during, and after a surgical procedure to minimize or prevent further damage. Mentions of eye surgery can be found in several ancient texts dating back as early as 1800 BC, with cataract treatment starting in the fifth century BC

**LASIK** LASIK or Lasik (/ˈleɪsɪk/; "laser-assisted in situ keratomileusis"), commonly referred to as laser eye surgery or laser vision correction, is a type of LASIK or Lasik (; "laser-assisted in situ keratomileusis"), commonly referred to as laser eye surgery or laser vision correction, is a type of refractive surgery for the correction of myopia, hypermetropia, and astigmatism. LASIK surgery is performed by an ophthalmologist who uses a femtosecond laser or a microkeratome to create a corneal flap to expose the corneal stroma and then an excimer laser to reshape the corneal stroma in order to improve visual acuity

**Manhattan Eye, Ear and Throat Hospital** In 2000, after 131 years as an independent entity MEETH affiliated with (and is now run as a sub-division of) Lenox Hill Hospital, a 450-bed acute care hospital, established in New York City in 1857 and located at 77th Street (between Park and Lexington Avenues) in Manhattan. [citation Manhattan Eye, Ear and Throat Hospital (MEETH) is a specialty hospital in New York City that was founded in 1869 and is currently located on the Upper East Side of Manhattan at 210 East 64th Street (between 2nd and 3rd Avenues). of

sonography (ultrasound) and angiography to diagnose a wide range of eye disorders, ophthalmic plastic surgery, and LASIK laser vision correction 7af8e963d3

Before corneal refractive surgery such as LASIK, SMILE, and PRK, people must be examined for possible risk factors such as keratoconus. 7af8e963d3

Presbyopia A common sign of presbyopia is difficulty in reading small print, which results in having to hold reading material farther away. The most common treatment is glass correction using appropriate Presbyopia is a physiological insufficiency of optical accommodation associated with the aging of the eye; it results in progressively worsening ability to focus clearly on close objects. Different people experience different degrees of problems. Also known as age-related farsightedness (or as age-related long sight in the UK), it affects many adults over the age of 40. using glasses, contact lenses, multifocal intraocular lenses, or LASIK (PresbyLASIK) surgery. Other symptoms associated can be headaches and eyestrain. While exhibiting similar symptoms of blur in the vision for close objects, this condition has nothing to do with hypermetropia or far-sightedness, which is almost invariably present in newborns and usually decreases as the newborn gets older. Other types of refractive errors may exist at the same time as presbyopia 7af8e963d3

During cataract surgery, the cloudy natural lens is removed from the posterior chamber of the eye, either by emulsification in place or by manual removal. An IOL (intraocular lens) is usually implanted in its place (PCIOL), or less frequently in the ciliary sulcus, to restore clear vision. Cataract surgery is performed by an ophthalmologist in an out-patient setting at a surgical centre or hospital. Local anaesthesia (injection) or topical anesthesia (drops) are normally used. The procedure is usually quick and causes little or no pain and minor discomfort. Recovery sufficient for most daily... 7af8e963d3 By contrast, an urgent surgery is one that can wait until the patient is medically stable, but should generally be done within 2 days, and an emergency surgery is one that must be performed without delay; the patient has no choice other than immediate surgery if permanent disability or death is to be avoided. Many surgeries can be performed as either elective or emergency surgeries, depending on the patient's needs. 7af8e963d3 == History == 7af8e963d3 MEETH is recognized in medical circles for its long history of contributions in developing the fields of ophthalmology, otolaryngology and plastic surgery. 7af8e963d3 == Description == 7af8e963d3

Photorefractive keratectomy The procedure may also reduce the chances of dry eye symptoms Photorefractive keratectomy (PRK) and laser-assisted sub-epithelial keratectomy (or laser epithelial keratomileusis) (LASEK) are laser eye surgery procedures intended to correct a person's vision, reducing dependency on glasses or contact lenses. over LASIK in that it avoids added complications associated with the flap created during surgery. The outer layer of the cornea is removed prior to the ablation. LASEK and PRK permanently change the shape of the anterior central cornea using an excimer laser to ablate (remove by vaporization) a small amount of tissue from the corneal stroma at the front of the eye, just under the corneal epithelium 7af8e963d3

== Risk factors == 7af8e963d3 Presbyopia is a typical part of the aging process. It occurs due to age-related changes in the lens (decreased elasticity and increased hardness) and ciliary muscle (decreased strength and ability to move the lens), causing the eye to focus light right behind rather than on the retina when looking at close objects. It is... 7af8e963d3

Cataract surgery The eye's natural lens is usually replaced with an artificial intraocular lens (IOL) implant. Cataract surgery is the removal of the natural lens of the eye that has developed a cataract, an opaque or cloudy area. The eye's natural lens is usually Cataract surgery is the removal of the natural lens of the eye that has developed a cataract, an opaque or cloudy area 7af8e963d3

Abnormal corneal topography compromises of keratoconus, pellucid marginal degeneration, or forme fruste keratoconus with an I-S value of 1.4 or more is the most significant risk factor. Low age, low residual stromal bed (RSB) thickness, low preoperative corneal thickness, and high myopia are other important risk factors. 7af8e963d3 == Process == 7af8e963d3 A computer system tracks the patient's eye position 60 to 4,000 times per second, depending on the specifications of the laser that is used. The computer system redirects laser pulses for precise laser placement. Most modern lasers will automatically center on the patient's visual axis and will pause if the eye moves out of range and then resume ablating at that point after the patient's eye is re-centered. 7af8e963d3

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