

Keratoconus

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Keratoconus, is a degenerative non-inflammatory disorder of the eye in which structural changes within the cornea cause it to thin and change to a more conical shape than its normal gradual curve. Keratoconus can cause substantial distortion of vision, with multiple images, streaking and sensitivity to light all often reported by the patient. Keratoconus is the most common dystrophy of the cornea, affecting around one person in a thousand, and it seems to occur in populations throughout the world, although some ethnic groups experience a greater prevalence than others. It is typically diagnosed in the patient's adolescent years and attains its most severe state in the twenties and thirties. Keratoconus is a little-understood disease with an uncertain cause, and its progression following diagnosis is unpredictable. If afflicting both eyes, the deterioration in vision can affect the patient's ability to drive a car or read normal print. In most cases, corrective lenses are effective enough to allow the patient to continue to drive legally and likewise function normally. Further progression of the disease may require surgery including transplantation of the cornea. Despite its uncertainties, keratoconus can be successfully managed with a variety of clinical and surgical techniques, and often with little or no impairment to the patient's quality of life.

Recent Publications on Keratoconus:



- [Initial Studies Using Aliphatic {beta}-Nitro Alcohols for Therapeutic Corneal Cross-linking.](#)
*Purpose: Corneal collagen cross-linking through UVA-riboflavin...*7th October, 2008
Ophthalmology, Columbia University, 635 West 165th St, New York, New York,- Invest Ophthalmol Vis Sci. 2008 Oct 3. ([DOI Direct Link](#))
- [Long-term Keratometric Changes After Penetrating Keratoplasty for Keratoconus and Fuchs Endothelial Dystrophy.](#)
*PURPOSE: To compare long-term keratometric changes after penetrating...*7th October, 2008
Department of Ophthalmology, Mayo Clinic, Rochester, Minnesota.- Am J Ophthalmol. 2008 Oct 1. ([DOI Direct Link](#))
- [Intraocular pressure spikes in keratectasia, axial myopia, and glaucoma.](#)
*PURPOSE: To review a range of activities associated with intraocular...*4th October, 2008
School of Optometry and Vision Science, University of New South Wales,- Optom Vis Sci. 2008 Oct;85(10):1018-26. ([DOI Direct Link](#))
- [Fluorescein pattern interpretation in keratoconus.](#)
*PURPOSE: The purpose of this study is to assess the effect of disease...*4th October, 2008
The Ohio State University College of Optometry, 320 West Tenth Avenue,- Optom Vis Sci. 2008 Oct;85(10):E939-46. ([DOI Direct Link](#))
- [Deep lamellar keratoplasty in keratoconus with healed hydrops.](#)
*PURPOSE: The purpose of this study is to assess the effect of disease...*25th September, 2008
- Cornea. 2008 Oct;27(9):1100; author reply 1100. ([DOI Direct Link](#))

- [Management of acute hydrops with perforation in a patient with keratoconus and cone dystrophy: case report and literature review.](#)
*PURPOSE: To describe a patient with cone dystrophy who presented with...*25th September, 2008
Division of Epidemiology and Clinical Research, National Eye Institute,- Cornea. 2008 Oct;27(9):1062-5. ([DOI Direct Link](#))
- [Deep anterior lamellar transplant using lyophilized and Optisol corneas in patients with keratoconus.](#)
*PURPOSE: Prospective randomized clinical trial to evaluate the efficacy of...*25th September, 2008
Federal University of Sao Paulo, Sao Paulo, Brazil.- Cornea. 2008 Oct;27(9):1030-6. ([DOI Direct Link](#))
- [Intacs in advanced keratoconus.](#)
*PURPOSE: To evaluate the surgical outcomes of microthin intracorneal ring...*25th September, 2008
Cornea and Refractive Surgery Service, Narayana Nethralaya, Postgraduate- Cornea. 2008 Oct;27(9):1022-9. ([DOI Direct Link](#))
- [The value-based medicine comparative effectiveness and cost-effectiveness of penetrating keratoplasty for keratoconus.](#)
*OBJECTIVE: To perform a base case, comparative effectiveness, and...*25th September, 2008
Retina-Vitreous Associates,- Cornea. 2008 Oct;27(9):1001-7. ([DOI Direct Link](#))
- [Prospective clinical evaluation of McCarey-Kaufman and organ culture cornea preservation media: 14-year follow-up.](#)
*PURPOSE: To compare the outcome of corneal grafts preserved in...*25th September, 2008
Cornea Bank Amsterdam, Neuro Institute for Neuroscience, Amsterdam, The- Cornea. 2008 Oct;27(9):996-1000. ([DOI Direct Link](#))
- [Outcomes of penetrating keratoplasty in mentally retarded patients with keratoconus.](#)
*PURPOSE: Mentally retarded patients with keratoconus who underwent...*25th September, 2008
Department of Ophthalmology, Anterior Segment Division, University General- Cornea. 2008 Oct;27(9):980-7. ([DOI Direct Link](#))
- [Reply: Long-term results of collagen crosslinking with riboflavin and UVA in keratoconus.](#)
*PURPOSE: Mentally retarded patients with keratoconus who underwent...*25th September, 2008
- J Cataract Refract Surg. 2008 Oct;34(10):1617. ([DOI Direct Link](#))
- [Long-term results of collagen crosslinking with riboflavin and UVA in keratoconus.](#)
*PURPOSE: Mentally retarded patients with keratoconus who underwent...*25th September, 2008
Miami, Florida, USA.- J Cataract Refract Surg. 2008 Oct;34(10):1616-7. ([DOI Direct Link](#))
- [Cigarette smoking is negatively associated with keratoconus.](#)
*PURPOSE: To investigate a correlation between cigarette smoking and...*25th September, 2008
Department of Ophthalmology, Technical University Dresden, Germany.- J Refract Surg. 2008 Sep;24(7):S737-40.
- [Intacs implantation with sequential collagen cross-linking treatment in postoperative LASIK ectasia.](#)
*PURPOSE: To report the postoperative course and refractive results of each...*25th September, 2008
Kudret Eye Hospital, Kennedy Caddesi No: 71, Kavaklidere, Ankara, Turkey- J Refract Surg. 2008 Sep;24(7):S726-9.

BioNews Results for Keratoconus

- [Intacs in Advanced Keratoconus](#)
MDLinx: Oct 3 2008 2:59PM Matching: keratoconus
- [Deep Anterior Lamellar Transplant Using Lyophilized and Optisol Corneas in Patients With Keratoconus](#)
MDLinx: Oct 1 2008 3:04PM Matching: keratoconus
- [Outcomes of Penetrating Keratoplasty in Mentally Retarded Patients With Keratoconus](#)
MDLinx: Sep 30 2008 3:03PM Matching: keratoconus
- [Cross-linking stability remarkable](#)
Ophthalmology Times: Sep 16 2008 1:00AM Matching: keratoconus

- [Effect of Age on Outcomes in Patients With Keratoconus Treated by Intacs Using a Femtosecond Laser](#)
PCON SuperSite: Sep 10 2008 9:54AM Matching: keratoconus
- [A Randomized Controlled Trial of Corneal Collagen Cross-linking in Progressive Keratoconus: Preliminary Result](#)
OSN Super Site: Sep 8 2008 9:15PM Matching: keratoconus
- [Cigarette Smoking is Negatively Associated With Keratoconus](#)
OSN Super Site: Sep 8 2008 9:14PM Matching: keratoconus

Keratoconus Patents:



- 7112611- [1g\(.alpha.\)-amino-N-hydroxy-acetamide derivatives](#)
- 7186707- [Prodrugs for use as ophthalmic agents](#)
- 7199155- [Acetylenic aryl sulfonate hydroxamic acid TACE and matrix metalloproteinase inhibitors](#)
- 7201925- [Treatment of ungual and subungual diseases](#)
- 7203351- [Analysis of optic nerve head shape](#)
- 7216980- [Eye characteristic measuring apparatus](#)
- 7223275- [System for cutting the cornea of an eye](#)
- 7229634- [Engineered proteins, and methods of making and using](#)
- 7232568- [Compositions and methods for treating hyperimmune response in the eye](#)
- 7232667- [Keratinocyte growth factor-2 polynucleotides](#)
- 7249851- [Eye characteristic measuring apparatus](#)
- 7178231- [Electrode assembly for a thermokeratoplasty system used to correct vision acuity](#)
- 7175278- [Wavefront reconstruction using fourier transformation and direct integration](#)
- 7168807- [Iterative fourier reconstruction for laser surgery and other optical applications](#)
- 7112668- [Polypeptides and nucleic acids encoded thereby](#)
- 7115263- [Compositions and methods for treating hyperimmune response in the eye](#)
- 7119201- [Triaryl-oxy-aryloxy-pyrimidine-2,4,6-trione metalloproteinase inhibitors](#)
- 7119223- [Interleukin-1 and tumor necrosis factor-.alpha. modulators, synthesis of said modulators and their enantiomers and methods of using said modulators](#)
- 7122345- [Nucleic acid encoding a NOVX13 polypeptide](#)
- 7125119- [Universal gonioscope-contact lens system for observation and intraocular laser surgery](#)
- 7129243- [Peptide compounds](#)
- 7132533- [Tricyclic compounds protein kinase inhibitors for enhancing the efficacy of anti-neoplastic agents and radiation therapy](#)
- 7138432- [Arylsulfonamido-substituted hydroxamic acid derivatives](#)
- 7154111- [Cornea characteristics measuring device](#)
- 7255442- [Device for measuring aberrations in an eye-type system](#)
- 7255881- [Metal-containing materials](#)
- 7370969- [Corneal topography analysis system](#)
- 7374286- [Ophthalmic apparatus and a method for calculating internal eye refractive power distribution](#)
- 7377637- [Hybrid contact lens system and method of fitting](#)
- 7380942- [Method for measuring the wave aberrations of the eye](#)
- 7384143- [Method of manufacturing a contact lens](#)
- 7396528- [Corneal cells expressing active agents and methods of use thereof](#)

- 7410995- [N-linked sulfonamide of heterocyclic thioesters for vision and memory disorders](#)
- 7416305- [Method and apparatus for improving vision and the resolution of retinal images](#)
- 7425068- [Method for operating an ophthalmological analysis system](#)
- 7427135- [Adaptive photoscreening system](#)
- 7365917- [Optical method and system for extended depth of focus](#)
- 7365893- [Iterative Fourier reconstruction for laser surgery and other optical applications](#)
- 7360892- [Method and apparatus for selecting contact lens for reshaping altered corneas due to post refractive surgery, previous Ortho-K or Keratoconus](#)
- 7265150- [Carboxylic acids and carboxylic acid isosteres of N-heterocyclic compounds for vision and memory disorders](#)
- 7282496- [Allenic aryl sulfonamide hydroxamic acids as matrix metalloproteinase and TACE inhibitors](#)
- 7288671- [Interleukin-1 and tumor necrosis factor-.alpha. modulators, synthesis of said modulators and their enantiomers and methods of using said modulators](#)
- 7291634- [.alpha.-amino-N-hydroxy-acetamide derivatives](#)
- 7311402- [Eye optical characteristic measuring instrument](#)
- 7325927- [Method of filtering data for the objective classification of eyes](#)
- 7331674- [Calculating Zernike coefficients from Fourier coefficients](#)
- 7338160- [Contact lens with shaped periphery](#)
- 7338976- [Heterocyclic esters or amides for vision and memory disorders](#)
- 7355793- [Optical system applicable to improving the dynamic range of Shack-Hartmann sensors](#)
- 7427416- [Methods of treating conditions using metal-containing materials](#)

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