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Changes in corneal endothelial cell density in patients ...

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To study the **changes in corneal endothelial cell density** in eyes with normal-tension glaucoma **compared** with those in controls. A total of 227 subjects in three groups, one each of normal-tension ...

Changes of corneal endothelial cell density after EX-PRESS ...

www.alliedacademies.org/articles/changes-of-corneal-endothelial... ▾

Lee EK, Yun YJ, LE JE, et al. **Changes in corneal endothelial cells** after Ahmed glaucoma valve implantation: 2-year follow-up. Am J Ophthalmol.2009;148:361-367. Kim CS, Yim JH, Lee EK, et al. **Changes in corneal endothelial cell density** and morphology after Ahmed glaucoma valve implantation during the first year of follow up.

Age (year): 71 ± 12

Author: Noriko Toyokawa, Kaoru Araki-Sasaki, Hi...

Intraocular pressure (mmHg): 27.1 ± 7.1

Male/Female: 11/8

[Changes of corneal endothelium in patients with primary ...

<https://www.ncbi.nlm.nih.gov/pubmed/12903450>

CONCLUSIONS: This study suggested that **patients** with acute PACG might have lower **corneal endothelium density** and bigger **cell** area than those without glaucoma in the same age group. The **endothelium density** and morphology of POAG and non-acute PACG were ...

Author: Luo Y, Li J, Jin Y **Publish Year:** 2000

Corneal changes after a single session of selective laser ...

www.ncbi.nlm.nih.gov › ... › Eye (Lond) › v.28(1); 2014 Jan

Corneal changes after a single session of selective laser trabeculoplasty for open-angle glaucoma. ... The central **corneal endothelial cell density** was assessed and defined as the number of **cells** per mm². Adequate tear film was ensured before each scan and the repeatability of measurements was confirmed. ... Brooks AM, Grant G, Gillies WE ...

Cited by: 26

Author: J W Y Lee, J C H Chan, R T Chang, K Si...

Publish Year: 2014

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 48038

Manuscript Type: ORIGINAL ARTICLE

Case Control Study

Changes in corneal endothelial cell density in patients with primary open-angle glaucoma

Yu Z *et al.* Corneal endothelial cell density changes in POAG patients

Zi-Yan Yu, Ling Wu, Bo Qu

Abstract

BACKGROUND

Glaucoma is a group of diseases characterized by a specific pattern of optic nerve neuropathy and retinopathy. Increasing evidence demonstrates glaucoma associated corneal endothelium loss. Direct-compression mechanism due to elevated intraocular pressure (IOP), cell toxicity after long term exposure to preservatives and glaucoma surgery have been reported to be the possible mechanism. Herein, we compare the specular endothelial microscopy in primary open-angle glaucoma (POAG) patients and healthy control of the same age group to observe the corneal endothelium changes and the correlations to the mean IOP in a Chinese case control study.

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Changes in corneal endothelial cell density in patients ...

<https://reference.medscape.com/medline/abstract/20020233> ▾

PURPOSE: To study the **changes in corneal endothelial cell density** in eyes with **normal-tension glaucoma** compared with those in controls. **METHODS:** A total of 227 subjects in three groups, one each of **normal-tension glaucoma** and **primary open-angle glaucoma patients** and one of normal controls, were studied from January 2008 to July 2008 in the Ophthalmology Department of Kangbuk Samsung ...

Changes in corneal endothelial cell density in patients ...

https://www.researchgate.net/publication/40697525_Changes_in_corneal_endothelial_cell...

They observed a **reduction** of 13.0% in corneal endothelial cell density in patients with **primary open-angle glaucoma** and 11.9% reduction in **normal-tension glaucoma patients**.

[PDF] Changes of corneal endothelial cell density after EX ...

www.alliedacademies.org/articles/changes-of-corneal-endothelial-cell-density-after...

Changes of corneal endothelial cell density after EX-PRESS ... **patients** with different types of **glaucoma**. Institutional review and recruitment The procedures used were approved by the Institutional Review Board of the Nagata Eye Clinic, and they conformed to the ... **Primary open angle glaucoma 3**

Author: Noriko Toyokawa, Kaoru Araki-Sasaki... **Publish Year:** 2018

[Changes of corneal endothelium in patients with primary ...

<https://www.ncbi.nlm.nih.gov/pubmed/12903450>

OBJECTIVE: To study the **density** and **morphology** of corneal endothelium in patients with **primary glaucoma**. **METHODS:** 125 eyes of 68 **patients** with **glaucoma** were compared with 63 eyes of 32 **patients** without glaucoma in the same age group. **Exclusion criteria** included history of **corneal disease**, ocular inflammation, trauma, contact lens wearing and surgery.

Author: Luo Y, Li J, Jin Y **Publish Year:** 2000

[PDF] Glaucoma-associated corneal endothelial cell damage: A ...

iowaglaucoma.org/sites/glaucoma/files/Corneal-Endothelium-Glaucoma.pdf

ications do cause **changes in corneal endothelial cells**. Di-lutions of 1/100, 1/1,000, and 1/10,000 of **betaxolol**, timolol, levobunolol, carteolol, dipivefrin, dorzolamide, brinzolamide, latanoprost, unoprostone, and pilocarpine have all increased intracellular calcium in **bovine corneal endothelial cells**,