

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 50970

Manuscript Type: ORIGINAL ARTICLE

Prospective Study

Longitudinal observation of intraocular pressure variations with acute altitude changes

Xie Y *et al.* Intraocular pressure and altitudinal changes

Yuan Xie, Yun-Xiao Sun, Ying Han, Di-Ya Yang, Yi-Quan Yang, Kai Cao,
Shu-Ning Li, Xue Li, Xin-Xin Lu, Shi-Zheng Wu, Ning-Li Wang

Abstract

Match Overview

1 **Internet** 29 words
crawled on 06-Jun-2017
www.ies.net.cn

1%



All

Images

Videos

关闭取词

28,200 Results

Any time ▾

What Happens to Intraocular Pressure at High Altitude ...

<https://iovs.arvojournals.org/article.aspx?articleid=2126905> ▾

However, there was no correlation between **change** in CCT and **change** in IOP. Although **blood pressure** is known to affect IOP, **30** this study failed to show any relationship between **acute changes** in BP at **altitude** and **change** in IOP. The reason for the **observed increase** in IOP may include both **changes** in CCT and exercise but a complete understanding of the mechanisms behind these **changes** ...

Cited by: 29

Author: John E. A. Somner, Daniel S. Morris, Kirs...

Publish Year: 2007

(PDF) What Happens to Intraocular Pressure at High Altitude?

<https://www.researchgate.net/publication>

[/6418992_What_Happens_to_Intraocular_Pressure...](#)

Initial intraocular pressure (baseline), heart rate, and arterial oxygen saturation were measured after 7 min of rest under normal ambient conditions at an altitude 250 m above sea level.

The Effect of Altitude on Intraocular Pressure in ...

<https://www.hindawi.com/journals/bmri/2016/7326160> ▾

Using the human Friedenwald rigidity coefficient, the human eye estimate for **intraocular pressure change** was 2.1, 1.8, 1.4, and 1.1 mmHg per every 100 m of attitude rise. **Altitude changes** have a significant impact on **intraocular pressure**. The final effect depends on the percentage of vitreous cavity fill and scleral rigidity.

Cited by: 2

Author: Jans Fromow-Guerra, Adriana Solís-Vivan...

Publish Year: 2016

Effect of acute intraocular pressure elevation on the ...

<https://bjo.bmj.com/content/102/1/131> ▾

Jan 01, 2018 · Background To estimate and compare **changes** in the Bruch's membrane opening —minimum rim width (BMO-MRW) and area in normal, ocular hypertensive and glaucoma eyes following **acute elevations** in **intraocular pressure** (IOP). Methods The optic nerve heads (ONHs) of 104 subjects (31 normals, 20 ocular hypertension (OHT) and 53 with primary glaucoma) were imaged ...

Cited by: 4

Author: Sourabh Sharma, Tin A Tun, Tin A Tun, ...

Publish Year: 2018



28,200 Results

Any time ▾

What Happens to Intraocular Pressure at High Altitude ...

<https://iovs.arvojournals.org/article.aspx?articleid=2126905> ▾

However, there was no correlation between change in CCT and change in IOP. Although blood pressure is known to affect IOP, this study failed to show any relationship between acute changes in BP at altitude and change in IOP. The reason for the observed increase in IOP may include both changes in CCT and exercise but a complete understanding of the mechanisms behind these changes

...

Cited by: 29

Author: John E. A. Somner, Daniel S. Morris, Kirs...

Publish Year: 2007

(PDF) What Happens to Intraocular Pressure at High Altitude?

[https://www.researchgate.net/publication](https://www.researchgate.net/publication/6418992_What_Happens_to_Intraocular_Pressure...)[/6418992_What_Happens_to_Intraocular_Pressure...](https://www.researchgate.net/publication/6418992_What_Happens_to_Intraocular_Pressure...)

Initial intraocular pressure (baseline), heart rate, and arterial oxygen saturation were measured after 7 min of rest under normal ambient conditions at an altitude 250 m above sea level.

Glaucoma: Basis of Glaucoma Flashcards | Quizlet

<https://quizlet.com/211627499/glaucoma-basis-of-glaucoma-flash-cards> ▾

an optic neuropathy characterized by progressive damage to the optic nerve called cupping, damage to the retinal nerve fiber layer (RNFL), and subsequent sensory damage to the visual field; damage usually occurs in the presence of elevated intraocular pressure

The Effect of Altitude on Intraocular Pressure in ...

<https://www.hindawi.com/journals/bmri/2016/7326160> ▾

Using the human Friedenwald rigidity coefficient, the human eye estimate for intraocular pressure change was 2.1, 1.8, 1.4, and 1.1 mmHg per every 100 m of attitude rise. Altitude changes have a significant impact on intraocular pressure. The final effect depends on the percentage of vitreous cavity fill and scleral rigidity.

Cited by: 2

Author: Jans Fromow-Guerra, Adriana Solís-Vivan...

Publish Year: 2016

Effect of acute intraocular pressure elevation on the ...

<https://bjo.bmj.com/content/102/1/131> ▾

Jan 01, 2018 · Background To estimate and compare changes in the Bruch's membrane opening —minimum rim width (BMO-MRW) and area in normal, ocular hypertensive and glaucoma eyes following acute elevations in intraocular pressure (IOP). Methods The optic nerve heads (ONHs) of 104