

# Causes of longitudinal fracture of the inner sheath of optical cable



## Overview

These fractures are usually caused by blunt-force injury to the malar eminence of the body of the zygoma. The fractures essentially pass through or near the zygoma's sutures with adjacent bones, including the frontozygomatic, zygomatico-maxillary, and the zygomatico-temporal. Fractures typically affecting the orbit include wall, floor and roof blowout or trapdoor fractures, Le Fort types II and III fractures and zygomaticomaxillary fractures (formerly known as tripod fractures). within the space bounded by the cone formed by the extraocular muscles, or whether it is located within the conal or extraconal space?

We will first describe the anatomic spaces of the. Traumatic optic neuropathy (TON) can cause acute vision loss after head trauma, either due to indirect shearing forces or direct trauma, i., by a bony fragment of an optic canal fracture (OCF). 2); and (2) orbital floor with the linear weak infraorbital canal ( Fig. These should be. The clinical diagnosis of indirect optic nerve injury rests on an ophthalmologic examination that excludes globe injury and can demonstrate an afferent pupillary defect.

## Article Content

### Diagnosis and Treatment Of Orbital Fractures

Ophthalmologists most often get involved in pure orbital fractures with an intact orbital rim and without other facial bone fracture. Of orbital fractures, the

A 20-year multicentre retrospective review of optic nerve

Optic nerve sheath fenestration (ONSF) longitudinal outcomes remain unclear and are vital in the assessment of vision failure in patients with raised

Fundamentals of Orbital Fractures | Springer Nature Link

Orbital fractures are common injuries. They may involve only this area or be associated with different types of midface fractures (zygomatic complex, naso-orbito-ethmoid, Le Fort type, or

CT and MRI of the Eye

Meningioma of nerve sheath is a result of subdural growth leading to progressive visual loss, papilledema, optic atrophy. There is a strong association with NF-2.

What Is an Orbital Fracture?

Blowout fracture A blowout fracture is a break in the floor or inner wall of the orbit or eye socket. A crack in the very thin bone that makes up these walls can pinch muscles and other

### FRACTOGRAPHY OF OPTICAL FIBERS

1. INTRODUCTION Optical fibers represent a novel application of glass where hair-thin fibers (typically 125  $\mu$ m diameter) carry voice, video and data in the form of light pulses. A single fiber optic cable

Traumatic Orbital and Ocular Injury

This relatively common facial fracture has gone by several names: tripod fracture, trimalar fracture, and now zygomaticomaxillary (ZMC) fracture.

Orbital Fracture: Symptoms, Causes, and Effective Treatments

Learn about orbital fractures, their symptoms, causes, and treatment options. Discover how to diagnose and recover from eye socket injuries effectively.

Anatomy of the Orbit: Overall Aspects of the Peri

Soft tissue systems in and around the orbit are presented in detail. The complexity of the soft tissue structures and its topographical location provides optimal environment for the delicate globe and

What Is an Orbital Fracture?

An orbital fracture is when there is a break in one of the bones surrounding the eyeball. Usually this kind of injury is caused when the eye is hit very hard.

The dural sheath of the optic nerve: descriptive anatomy and surgical ...

**Abstract** The aim of this work was to clarify the descriptive anatomy of the optic dural sheath using microanatomical dissections on cadavers. The orbit is the rostral part of the extradural neural axis

**Orbital Fracture Resulting in Contralateral Optic Canal**

The clinical presentation includes acute loss of visual acuity (VA), color perception, and/or visual field, an ipsilateral relative afferent pupillary defect, and an initially

**The Use of POCUS-Obtained Optic Nerve Sheath Diameter in**

An increase in intracranial pressure (ICP) causes cerebral spinal fluid to move from the intracranial cavity into the optic subarachnoid space, thereby resulting in distension of the optic nerve sheath and

**Orbital Fracture Diagnosis and Treatment**

To check for an orbital fracture, an ophthalmologist will examine the eye and the area around it. In many cases, orbital fractures do not need surgery.

**Bilaminar Mechanics of the Human Optic Nerve Sheath**

**Purpose/Aim:** The adult human optic nerve sheath has recently been recognized to be bilaminar, consisting of inner and outer layers. Since the optic nerve and sheath exert tension on the globe in

**Orbital Fractures 57**

Figure 57.32a–f demonstrates the management of a mal-united fronto-basilar fracture along with a blow-in fracture of the orbital roof compressing the eyeball producing restriction of movement.

**Optic Nerve and Sheath: Acute and Chronic Infections**

**KEY POINTS** The imaging findings in optic nerve and sheath inflammation and infection are most often nonspecific. Imaging can identify

**CT Demonstration of Optic Canal Fractures**

Four fractures were classified as intraorbital in location and were in close proximity to the optic nerve as it entered the orbit and thus were believed to be an indication of significant optic nerve trauma.

**Incidence of optic canal fracture in the traumatic optic neuropathy and ...**

Based on the correlation between the presence and type of optic canal fracture and the visual prognosis in TON deduced from this study, we can design more logical and precise clinical trials which will help

Idiopathic Dural Optic Nerve Sheath Calcification Associated with ...

Ocular examinations revealed sclerochoroidal mass beneath superotemporal vascular arcade in macular area. Orbital CT scan shows bilat-eral calcification of dural optic nerve sheath and posterior wall of

CT and MRI of the Eye

The optic nerves are normal, but there is abnormal mass-like enhancement of the optic nerve sheath on the left. So this is probably a neoplasm

Orbital Fractures: A Decade of Experience at a Tertiary

In cases of inner orbital wall fractures, the lacrimal conjunctival approach or the inner canthus skin approach can be chosen. Com-pound or multi-wall fractures may necessitate combined skin or

Orbital Fractures 57

57.1 Introduction Orbital fractures are unique among cranio-maxillofacial (CMF) fractures. They have functional, cosmetic, and psy-chological implications. Most importantly they are among the few true

Traumatic Orbital and Occular Injury

An optic canal fracture is a subtype of the orbital apex fracture, which specifically involves the body of the sphenoid bone at the confluence of the lesser

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