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### Literature search results

**Search completed for:** Orbital Floor Fracture repair

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#### Resources searched

Bandolier, Cochrane Library, NHS Specialist Library – Eyes, Medline, Embase,

**Database search terms:** orbital fractures, permacol, porcine, collagen

**Google search string:** orbital floor fractures (permacol or porcine collagen)

Orbital floor fractures and permacol

#### Summary

Very few resources specify using Permacol in repairing orbital floor fractures. Search strategy sent to requester.

#### Guidelines

None found

#### Evidence-based reviews

None found

#### Published research

1. **Orbital implant exposure treatment with porcine dermal collagen patching**
Abstract: Purpose. To present a small case series of orbital implant exposures treated with porcine dermal collagen (Permacol, Tissue Science Laboratories PLC, Aldershot, Hants, UK) patching. Methods. A retrospective chart review of three cases of orbital implant exposure treated with Permacol patching. Results. Three cases were identified. There were 4 operative episodes of Permacol patching (one socket had two attempts at permacol patching). In all 4 cases the patch rapidly failed and melted away leaving behind the orbital implant exposure. All 3 patients required implant removal. Conclusions. Orbital implant exposure remains a major long-term complication of evisceration and enucleation procedures. On the basis of our experience, we would not recommend using Permacol as a non-autologous material for covering exposed Medpor (Medpor, Porex Surgical, Atlanta, Georgia, USA) orbital implants. Further study is required to fully assess the safety and efficacy profile of Permacol in socket surgery. Copyright 2006 Informa Healthcare.

Source: EMBASE

Full Text:

Available in fulltext at EBSCO Host

2. Re: "Localized inferior orbital fibrosis associated with porcine dermal collagen xenograft orbital floor implant".

Author(s): Avery C, Hayter JP, Ormiston IW

Citation: Ophthalmic Plastic & Reconstructive Surgery, May 2005, vol./is. 21/3(249; author reply 249-51), 0740-9303;0740-9303 (2005 May)

Publication Date: May 2005

Source: MEDLINE

3. Localized inferior orbital fibrosis associated with porcine dermal collagen xenograft orbital floor implant.

Author(s): Cheung D, Brown L, Sampath R

Citation: Ophthalmic Plastic & Reconstructive Surgery, May 2004, vol./is. 20/3(257-9), 0740-9303;0740-9303 (2004 May)

Publication Date: May 2004

Abstract: We describe the clinical features, treatment, and histologic changes of a case of severe localized orbital inflammation associated with the use of porcine dermal collagen xenograft (Permacol) as an orbital floor implant in a 14-year-old boy. After uneventful blowout fracture repair with
normal forced duction testing after insertion of a Permacol implant, progressive elevation and depression deficit developed in the postoperative period. There was no improvement after removal of the Permacol implant. Exploratory surgery revealed gross fibrosis of the inferior rectus muscle accounting for the abnormal ocular motility. Biopsy of the inferior rectus muscle showed chronic granulomatous inflammation suggestive of foreign body reaction. Although porcine dermal collagen xenograft has been suggested as an implant for orbital floor repair because of its reported high strength, ease of handling, and high biocompatibility, we believe that further studies are necessary before it can be recommended for this use.

Source: MEDLINE

4. **Permacol: clinical experience with a new biomaterial**

Author(s): Harper C.

Citation: Hospital medicine (London, England : 1998), February 2001, vol./is. 62/2(90-95), 1462-3935 (Feb 2001)

Publication Date: February 2001

Abstract: Permacol (Tissue Science Laboratories plc, Aldershot, Hants) is a new biomaterial which combines the strength and permanence of synthetic surgical repair materials with the biocompatibility of natural materials. This article examines the clinical application of Permacol in a range of different surgical procedures.

Source: EMBASE

Full Text:
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Available in print at Lincoln County Hospital Professional Library
Available in print at Louth County Hospital Medical Library
Available in print at Pilgrim Hospital Staff Library

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**Google Scholar**

From 1st 50 results…

RECONSTRUCTION OF AN ORBITAL FLOOR FRACTURE IN A 4-YEAR-OLD CHILD

[PDF] from cuni.cz V Chrobok, A Pellant, J Novák… - ACTA MEDICA (Hradec …, 2008 - lhk.cuni.cz

... The second unique feature of orbital floor fractures in children concerns the surgical approach used for fracture... a patient with severe localized orbital inflammation associated with the use of a porcine dermal collagen xenograft (Permacol) as an orbital floor implant in...
We describe a case of an orbital floor fracture resulting in obstruction of ... with normal forced duction testing after insertion of a Permacol implant, ...

Orbital floor fractures - Maxfaxsho.co.uk
30 Mar 2009 ... Permacol can be used, or it the fracture is more severe a titanium mesh may be required. Complications of grafting the orbital floor ...

Informa Healthcare - Orbit - 25(3):253 - Full Text
by A Alwitry - 2006 - Cited by 5 - Related articles
(2004) recently reported a case where Permacol was utilized as an orbital floor implant in a 14-year-old boy who had sustained an orbital floor fracture.