

## Vital Dyes In Vitreoretinal Surgery Chromovitrectomy Developments In Ophthalmology Vol 42

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### Vital Dyes In Vitreoretinal Surgery

Vital dyes contain complex molecules with chromophores that stain living tissues and have greatly enhanced identification and removal of transparent vitreoretinal tissues during surgery.

### Vital Dyes in Vitreomacular Surgery - Healio

The Use of Vital Dyes during Vitreoretinal Surgery - Chromovitrectomy. Farah ME, Maia M, Penha FM, Rodrigues EB. The aim of this article is to present the current data with regard to the application of vital dyes during vitreoretinal surgery, 'chromovitrectomy', as well as to overview the current literature regarding the properties of dyes, techniques of application, indications and ...

### The Use of Vital Dyes during Vitreoretinal Surgery ...

Vital dyes contain complex molecules with chromophores that stain living tissues and have greatly enhanced identification and removal of transparent vitreoretinal tissues during surgery. Several "chromovitrectomy" dyes are frequently used by vitreoretinal specialists, including indocyanine green, trypan blue, brilliant blue G, and triamcinolone acetonide; other dyes are also under investigation.

### Vital Dyes in Vitreomacular Surgery.

Request PDF | Vital Dyes in Vitreoretinal Surgery | Since the early nineties removal of the internal limiting membrane (ILM) has been shown to be an effective and safe treatment option for ...

### Vital Dyes in Vitreoretinal Surgery | Request PDF

To review recent literature data regarding the use of vital dyes in vitreoretinal surgery in terms of efficacy and specificity towards ocular structures as well as in terms of safety. Introduction: Vital dyes stain living membranes/ structures and contain chromophores, the chemical identities responsible for colour.

### Lecture on Dyes: Vital Dyes in Vitreoretinal Surgery ...

174 Kerala Journal of Ophthalmology Vol. XX, No. 2 Vital Dyes For Chromovitrectomy: Colours for the Vitreoretinal Surgeon!!! Dr. Meena Chakrabarti MS DO DNB, Dr. Valsa Stephen MS DO DNB, Dr. Sonia Rani John DNB, Dr. Arup Chakrabarti MS DO Chromovitrectomy 1 refers to the application of vital dyes during retinal surgery to visualize preretinal tissues

### Vital Dyes For Chromovitrectomy: Colours for the ...

Dyes may be designated vital when they are used to stain living tissues or cells. In ophthalmology, vital dyes have become effective and useful surgical tools for identifying ocular tissues. Chromovitrectomy is a novel surgical technique for visualizing intraocular tissues during vitreoretinal surgery.

### GLOBAL PERSPECTIVES: Vital Dyes for Staining Intraocular ...

Vital dyes are used by vitreoretinal specialists to visualize transparent preretinal tissues, to enhance identification and to remove transparent anatomical layers during vitreoretinal surgery ...

### Vital dyes necessary for vitreomacular surgery but may ...

The use of intraocular vital dyes to enhance tissue visibility during retinal surgery has the potential to improve surgical performance and reduce risk. The ideal retinal vital dye for selective membrane staining during vitreoretinal surgery should be water soluble, reasonably priced, and provide good color contrast, effective staining, and safety.

### Vitreoretinal Staining Solutions - Retina Today

Surgery for MHS typically includes removal of any epiretinal membranes (ERMs) and peeling of the ILM, with or without use of vital dyes to aid visualization [5][6][7][8][9] [10].

### (PDF) Vital Dyes in Ophthalmology: a Chemical Perspective

This article reviews the most relevant vital dyes and adjuncts currently available for use in vitreoretinal surgical procedures. The current concepts of intraocular application as well as the staining properties are described, and the issue of biocompatibility is discussed.

### Farbstoffe in der vitreoretinalen Chirurgie | SpringerLink

As vitreoretinal surgery has become more elective, reports about retinal toxicity of, e.g., medical de-vices have emerged [13-16]. The spotlight was set on this topic after 2013 when cases of acute intraocular toxicity were reported in sev-eral European countries with at least three different products after an uneventful vitreoretinal surgery ...

### Retinal Toxicity of Medical Devices Used during ...

For vitreoretinal surgery, vital dyes enable easier identification of the semitransparent preretinal membranes. Current recommendations for the application of dyes during vitreoretinal surgery indicate that ICG, IfCG, BriB, and BroB may be the best stains for the ILM, while TB and PB may be preferred for staining the glial ERM.

### Vitreoretinal Surgery - an overview | ScienceDirect Topics

es. Staining of these tissues with vital dyes may facilitate their identification and safe removal during vitreoretinal sur - gery. Several dyes are currently in routine clinical use for chromovitrectomy to visu - alise different structures in the eye. V itreoretinal surgery is per formed for a variety of reti nal diseases, including symp

### The efficacy of vital dyes in PVR surgery

An overview of vital dyes for vitreoretinal surgery Ryan N. Vogel, MD • Judy E. Kim, MD C hromovitrectomy is a term used to describe pars plana vitrectomy with the use of vital dyes to help identify ocular tissues that are otherwise difficult to visualize due to transparency. 1 These transparent tissues include vitreous, epiretinal membrane, and the internal limiting membrane.

### Color Me Green, White, and Blue: Chromovitrectomy in Surgery

Vital Dyes in Vitreoretinal Surgery by CH Meyer DO NOT be discouraged by the title, since the book is not only of interest to surgeons. Optometric

interest in retinal and vitreous detachment has greatly increased outside hospital practice and several of the techniques presented in this collection of papers are relevant.

**Vital Dyes in Vitreoretinal Surgery. - Free Online Library**

Chromovitrectomy refers to the usage of vital dyes in vitreoretinal surgery to aid in the visualization of ocular tissues and anatomic planes. Specifically, the internal limiting membrane, vitreous humor, and epiretinal membranes are all semi-transparent ocular tissues that can be more easily visualized with vital dyes.

**Chromovitrectomy - EyeWiki**

The vital dyes have shown cytotoxic effects in ocular cells. Autophagy is a stress responsive pathway for either protecting cells or promoting cell death ... Indocyanine green (ICG) and brilliant blue G (BBG) are commonly used vital dyes to remove internal limiting membrane (ILM) in vitreoretinal surgery.

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