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Vital Dyes in Vitreoretinal Surgery (Developments in ...

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 - Heallo

It is well known that indocyanine green is toxic to the retina and consequently not the ideal dye for chromovitrectomy. Different vital dyes has been tested for chromovitrectomy including trypan blue, patent blue, triamcinolone acetone, indocyanine green, sodium fluorescein and brilliant blue. Brilliant blue seems to be the ideal dye for internal limiting membrane due to its affinity, lower toxic profile and to reduce the appearance of apoptosis.

The Use of Vital Dyes during Vitreoretinal Surgery ...

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Vital Dyes in Vitreoretinal Surgery (Developments in ...

To investigate the biocompatibility of methyl blue and aniline blue as vital dyes for vitreoretinal surgery in an in vivo rat model and to evaluate the effect of these dyes on retinal structure ...

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Vital Dyes in Vitreomacular Surgery. Bracha P, Ciulla TA, Baumal CR. 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.

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

An overview of vital dyes for vitreoretinal surgery Ryan N. Vogel, MD • Judy E. Kim, MD
Chromovitrectomy 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

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 ...

Vital dyes represent an expanding area of research, and novel dyes deserve further investigation. Intraoperative anterior capsule staining with trypan blue in cataract surgery. (A) Intracamerular...

(PDF) Vital Dyes in Ophthalmology: a Chemical Perspective

Vitreoretinal surgery, particularly inner limiting membrane peeling, was notoriously challenging until the fairly introduction of indocyanine green, which appears to be helpful in improving efficacy and safety. Other dyes have been used in trials to varying effect, including some compounds that have proven to be disastrous. This collection reports ...

Vital Dyes in Vitreoretinal Surgery - Chromovitrectomy by ...

Various blue dyes for clinical uses are described, with illustration of ILM peeling after diabetic macular oedema staining. Trypan blue staining has affinity for the lens capsule, an aid to surgery; it is unclear whether stains persist for long and might puzzle subsequent optometric observation. Several experiments with novel dyes are reported.

Vital Dyes in Vitreoretinal Surgery. - Free Online Library

The selective staining of cellular components in epiretinal membrane or extracellular matrix components on the retinal surface such as the inner limiting membrane (ILM) may be visualized during vitrectomy by a variety of vital dyes (chromovitrectomy). Numerous vital dyes, including indocyanine green, trypan blue, brilliant blue, patent blue, and triamcinolone, have been proposed to stain the vitreous, epiretinal membranes, or ILM during chromovitrectomy.

Vitreoretinal Surgery - an overview | ScienceDirect Topics

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

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Vital dyes necessary for vitreomacular surgery but may ...

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Many surgeons make use of dyes and other agents to improve visualization of intraocular structures during vitreoretinal surgery. Substances currently employed for this purpose in the United States include the vital stains trypan blue and indocyanine green (ICG) and the corticosteroid triamcinolone acetonide.

Uses of Visualization Aids in Vitreoretinal Surgery ...

Vital Dyes in Vitreoretinal Surgery by F. Bandello, 9783805585514, available at Book Depository with free delivery worldwide.

Chromovitrectomy is a novel approach to visualize the vitreous or retinal surface during vitreoretinal surgery. In recent years, the widely used indocyanine green (ICG) has made the surgical maneuver of inner limiting membrane peeling tremendously safer and efficient. Also, numerous dyes have been applied in experimental settings with promising or devastating results. This volume highlights the major clinical and experimental results of currently used novel vital dyes. The first chapters describe the transparent structure of the vitreous body and summarize historical considerations to visualize its structure by optical coherence tomography, dye injections or autologous cells during surgery and for diagnostic purposes. The following contributions describe the advantages and disadvantages of ICG during vitreoretinal surgery and experimental applications. Alternative approaches by recently approved vital dyes such as trypan blue, patent blue and brilliant blue are evaluated in the subsequent chapters. Finally the last few chapters give an outlook on novel vital dyes, which are currently under evaluation, as well as alternative enzymatic approaches to remove the vitreous from the retinal surface. Being a timely update this publication will be indispensable reading for vitreoretinal surgeons and ophthalmic researchers.

The use of pharmacotherapeutics in the management of retinal diseases is rapidly evolving, and a favorable therapy for the patient. Today anti-VEGF agents are used for a range of indications from inflammation-related choroidal neovascularization to macular edema secondary to retinal vein occlusion or diabetic retinopathy. Beyond VEGF, there is an array of target areas under investigation – not only for vascular pathologies such as age-related macular degeneration and diabetic eye disease, but also for degenerative, infectious and inflammatory retinal conditions. This publication discusses many aspects from basic research on the retina, to animal models for retinal drug delivery, retinal diseases that are amenable to pharmacotherapy and also drugs and mechanisms in retinal diseases. Anyone concerned with the management of retinal diseases - the general ophthalmologist and the retina specialist alike – will find this book indispensable reading.

Over the last two decades, tremendous progress has been made in vitrectomy surgery, most importantly the

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significant reduction of the gauge and implementation of microincision vitrectomy surgery (MIVS). At the same time, the introduction of wide-viewing systems and the utilization of vital dyes to better recognize structures like the vitreous and membranes have taken place. This volume starts with the fundamentals of MIVS, introducing both the mechanics and the physics of the latest generation of vitrectomy devices, followed by a description of the discrete gauge systems (i.e. 23-, 25-, and 27-gauge). Individualized but mandatory settings, techniques, and technology are also discussed in detail. There are also more than ten chapters outlining concrete surgical strategies that give surgeons a thorough overview of the procedures.

Comprehensive guide to latest techniques in vitreoretinal surgery. Includes complete section on paediatric retinal surgery.

The value of this book lies in the quality and expertise of the text chapters contributed by multiple international experts across the globe. Clearly written by the contributors providing a global perspective about the subject. Attempts to update the state-of-the-art vitreoretinal surgery in a lucid, authoritative and well-illustrated manner. Detailed reference lists following each chapter provide extensive background support for the text. Outstanding illustrations combined with excellent schematic drawings, beautiful clinical photographs, fluorescein angiograms, and OCT images. Illustrations.

This book describes and illustrates the various operative techniques employed in internal limiting membrane (ILM) surgery in patients with different macular diseases. Clear guidance is first provided on terminology, bearing in mind that, in the past, methods and results have often been misread or misunderstood owing to confusing terms. Instruction is then given on handling of the ILM and the use of vital dyes and vitreous substitute. ILM peeling, ILM insertion, and ILM flap techniques are explained, and detailed descriptions are provided of the ILM surgical procedures currently performed in conditions such as macular hole, epiretinal membrane, diabetic macular edema, myopic tractional maculopathy, retinal detachment, and optic pit maculopathy. In addition, a chapter is devoted to the postoperative anatomical and functional changes to the macula after ILM surgery in order to help readers both to understand the mechanism of metamorphopsia and to reduce this symptom. The book will be an excellent up-to-date guide for all vitreoretinal surgeons.

Retinal Pharmacotherapy is the first comprehensive book devoted to pharmacologic agents and their rationale and mechanisms of action in selected retinal and uveitic diseases. Drs. Quan Dong Nguyen, Eduardo Buchele Rodrigues, Michel Eid Farah, and William F. Mieler lead an international team of expert contributors to present up-to-date knowledge of new drugs on the market, the science behind the drugs, evidence of how the drugs work, and the reasons why they are effective or not. This user-friendly, all-in-one reference provides you with easy access to practical information on the effective and appropriate use of pharmacologic agents in the management of retinal diseases. Covers all new and existing retinal drugs to keep you current in this expanding area of the treatment of retinal diseases. Discusses the background behind retinal drugs and the various pathways of how they work so you can make thoroughly informed clinical decisions. Presents 400 color photographs and line drawings that illustrate disease appearance before and after treatment and clarify difficult key concepts. Features contributors from Europe, North America, South America, the Middle East, Asia, and Australia for an international approach. Identifies and emphasizes key points clearly in each chapter to improve comprehension and make finding information easier.

"Essentials in Ophthalmology" is a new review series covering all of ophthalmology categorized in eight subspecialties. It will be published quarterly, thus each subspecialty will be reviewed biannually. Given the multiplicity of medical publications already available, why is a new series needed? Consider that the half-life of medical knowledge is estimated to be around 5 years. Moreover, it can be as long as 8 years between the first description of a medical innovation in a peer-reviewed scientific journal and publication in a medical

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textbook. A series that narrows this time span between journal and textbook would provide a more rapid and efficient transfer of medical knowledge into clinical practice, and enhance care of our patients.

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