

Vital Dyes In Vitreoretinal Surgery Chromovitrectomy Developments In Ophthalmology Vol 42

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~~Vitreoretinal Surgery at SightMD, Long Island, NY~~ ~~Scleral Buckle and vitrectomy for retinal detachment~~ ~~Surgery: Live Surgical Demonstration: Basics of Macular Hole Surgery~~ *Vital Dyes In Vitreoretinal Surgery*

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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 - Healio

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 acetonide, infracyanine 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, Bauml 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 ...

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. ntra-operative anterior capsule staining with trypan blue in cataract surgery. (A) Intracamerular...

(PDF) Vital Dyes in Ophthalmology: a Chemical Perspective

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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...

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 ...

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