

### **“Brilliant blue G” stain for ILM peeling**

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#### **Advantages / Purpose:**

To study the efficiency and features of application of «Brilliant Blue G» for staining of the internal limited membrane during its peeling.

#### **Methods:**

The results of internal limited membrane staining with «Brilliant Blue G» for its peeling are analyzed. In total with the use of the new stain 5 patients with various vitreoretinal pathology were operated: a diabetic macular edema, idiopathic macular rupture, posttraumatic macular rupture.

#### **Results:**

For all patients we performed a 3D high-speed 23-gauge vitrectomy with the apparatus «ACCURUS 800 CS». The posterior hyaloid membrane was visualized by Triamcinolone acetonide suspension and lifted with the headpiece of the vitreotome in the aspiration regimen of the traditional technique. Then the Brilliant Blue G (0.25 mg/ml) solution was injected in the vitreous cavity (without the fluid/air exchange) that caused blue staining of the internal limited membrane which was then peeled with an ILM forceps (Alcon) using the traditional technique. After the circular peeling of ILM this area well contrasted with the stained retina, specifying the efficiency of the carried out procedure. The postoperative period of all patients proceeded without complications; collateral toxic effects were not observed. The positive anatomic and functional effect was noted in all operated patients.

#### **Take home message:**

The new stain «Brilliant blue G» can successfully be used for the improvement of visualization of the ILM for its peeling.