

Triam-time: „Parmesan“ central vitrectomy in macular disease

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Purpose:

The use of triamcinolone has been recently proposed as a means in vitreoretinal surgery. Its injection into the vitreous chamber allows us to find new strategies in the difficult phases of vitreoretinal surgery. This study aims at defining the use of triamcinolone, presenting the practical and technical advantages of the intravitreal use of this corticosteroid.

Methods:

We injected 1cc of triamcinolone purified and diluted in BSS during vitrectomy in different vitreoretinal disorders. In all cases triamcinolone injection and its removal do not present any difficulties. In case of rhegmatogenous retinal detachment the triamcinolone may find his way in the subretinal space. However, it was easily removed through the laceration and the subretinal remains did not cause any complications in the post-operative phase. In some cases the peeling of the internal limitant membrane (ILM) was performed.

Results:

In all cases the triamcinolone allowed us to underline the remaining vitreous, the posterior hyaloid and epiretinal membranes (ERM). In some cases the triamcinolone underlined the remaining posterior hyaloid on the posterior pole. In this way we could remove the remaining hyaloid. Triamcinolone does not produce a real staining, the drug deposits on the vitreous or on the ERM and underlines them.

Conclusion:

The use of triamcinolone in complete central and base vitreous removal, in posterior hyaloid detachment and in ERM peeling allows for a better safety in these manoeuvres and provides higher quality to the surgery. In addition to that, its anti-inflammatory effect may reduce the risk of PVR formation and recurrences. In case of diabetic retinopathy it may reduce the development of macular edema. In some cases we performed the peeling of the ILM. The staining with indocyanine green confirmed the complete removal of the internal limitant membrane. The indocyanine green staining remains the better means to perform this manoeuvre.

Take-home message:

“To see is power: better visualization offers safety and quality.”

