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Nd:YAG Photocoagulation for Sub-Internal Limiting Membrane Hemorrhage

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Clinical Image

A 52-year-old man presented to our clinic with a sudden decrease in vision in the right eye after exercise 4 days ago. On ophthalmic examination of the right eye, his Vision Acuity (VA) was finger counting. Fundus examination showed a well-circumscribed premacular hemorrhage 15 disc diameters in size (Figure 1A) (stars) and a transparent membrane overlying the hemorrhage reflected with glistening light reflexes (Figure 1A) (arrows). No posterior vitreous detachment was evident and no dye leakage on fluorescence angiography was observed (Figure 1B). Nd:YAG laser membranotomy was performed at the 3rd week and the hemorrhage was rapidly released into the vitreous cavity through the incision (Figure 1C) (arrow). Twelve days later, VA was 0.8 in the right eye and the macula was free of blood, but a fine membrane with glistening reflexes and striae demarcated the previous location of the hemorrhage (Figure 1D). OCT scans showed a prominent hyporeflective convex premacular cavity (Figures 1E-1G) with a breach of Internal-Limiting Membrane (ILM, star) (Figure 1G) (slim arrow) were clearly demonstrated. One month later, VA in the right eye improved to 1.0 and has remained stable. The tentative diagnosis of Valsalva retinopathy was made for the patient.



Figure 1: Vision Acuity



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