

Case report

BILATERAL PRERETINAL HEMORRHAGE AFTER BLOOD TRANSFUSION: CASE REPORT AND REVIEW OF THE LITERATURE

ABSTRACT

Objective: To describe a case of bilateral preretinal hemorrhage after blood transfusion

Results: This is a female patient, 21 years old, of rural origin, with a pathological history of rhabdomyosarcoma 8 years ago, she was seen in the emergency department of the aforementioned hospital with anemia of 4 hemoglobin and a bag of whole blood, a The day after a blood transfusion she developed a subconjunctival hemorrhage in her right eye. She was accompanied by her family to our ophthalmology emergency where she was seen at our service. According to the girl's ophthalmological examination, the girl's visual acuity without optical correction was 09/10 in the right eye and 10/10 in the left eye, annexes: eyelids without ptosis but with eyelid retraction, there was subconjunctival hemorrhage, preserved ocular motility, unilateral exophthalmia, without pain, non-reducible in the right eye, anterior segment without particularity, fundus of the eye presents spots of pre-retinal hemorrhage in multiple, very limited form with good macular reflex, and left eye: adnexa and anterior segment without particularity, fundus of the eye presents multiple stains Well-limited round preretinal hemorrhages located in the posterior pole and periphery. The pre-retinal hemorrhage of the girl with anemia after blood transfusion resolved without medical treatment, we advised the girl to drink more water than before and we monitored it every month and after three months it resolved with a favorable evolution

Keywords: hemorrhage, subconjunctival, retinal, rhabdomyosarcoma, blood transfusion

INTRODUCTION

Preretinal hemorrhages may be located below the internal limiting membrane, or between it and the posterior hyaloid. They generally have a circumscribed and elevated appearance, rounded in shape or sometimes delimiting a level, and the accumulated blood is bright red. When they occupy the foveal area, they cause significant visual loss

due to a screen effect on the retina. Although they can resolve spontaneously, they sometimes require some type of treatment. how the case resolved without medical treatment with our guidance and follow-up after three months.

CASE REPORT

This is a female patient, 21 years old, of rural origin, with a pathological history of rhabdomyosarcoma 8 years ago. anemia of 4 hemoglobin and a bag of whole blood was transfused, one day after the blood transfusion she presented sub-conjunctival hemorrhage in the right eye, she was accompanied with her family to our ophthalmology emergency where she was seen in our service. According to the girl's ophthalmological examination, the girl's visual acuity without optical correction was 09/10 in the right eye and 10/10 in the left eye, annexes: eyelids without ptosis but with eyelid retraction, there was subconjunctival hemorrhage, preserved ocular motility, unilateral exophthalmia, without pain, non-reducible in the right eye, anterior segment without particularity, fundus of the eye presents spots of pre-retinal hemorrhage in multiple, very limited form with good macular reflex, and left eye: adnexa and anterior segment without particularity, fundus of the eye presents multiple stains very limited round pre-retinal hemorrhages located in the posterior pole and periphery, complementary exams requested are: face photo shows exophthalmia in the left eye and subconjunctival hemorrhage and photo of normal left eye (figure 1), retinography shows spots of subretinal hemorrhage (figure 2 and 3) and fluorescent engeography shows hypofluorescence in areas of hemorrhage spots (figure 4) and normal macular OCT (figure 5)

Figure 1 . image shows exophthalmos in the left eye and subconjunctival hemorrhage



Figure 2. retinography shows preretinal hemorrhage spots in the right eye



Figure 3. retinography shows multiple well-limited round preretinal hemorrhagic spots located in the posterior pole and periphery of the left eye

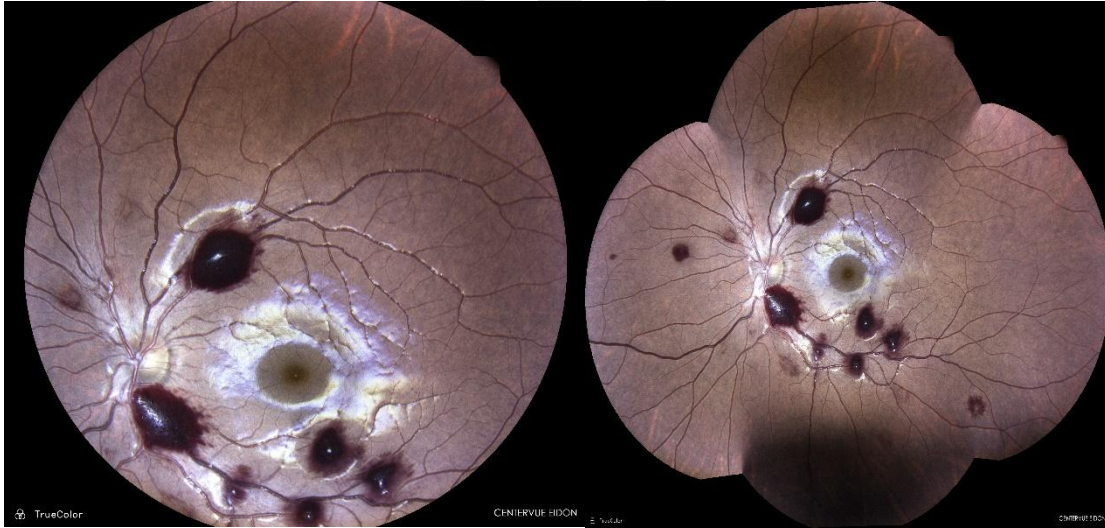


Figure 4. Fluorescent angiography shows hypofluorescence in areas of hemorrhage spots

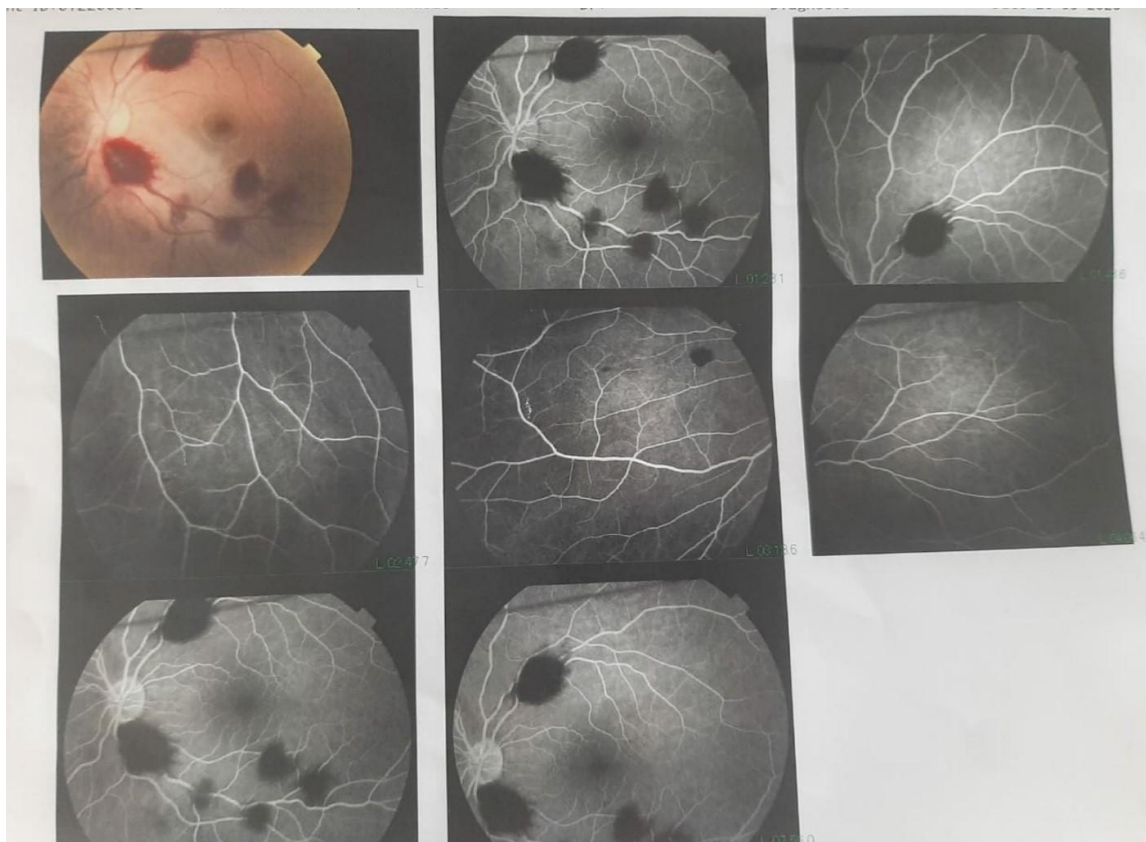
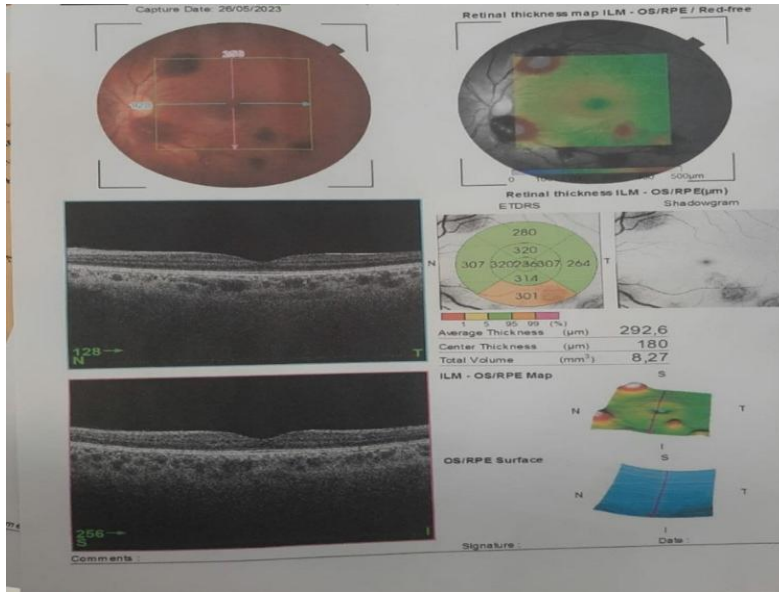


Figure 5. Normal macular OCT



DISCUSSION

Preretinal hemorrhage occurs in the context of a variety of ocular and systemic conditions. The presence of preretinal blood causes damage to the retina through: direct iron toxicity, and retinal disruption due to clot retraction. Likewise, the final visual prognosis is determined by other variables, such as: the size of the hemorrhage, the length of time the blood remains and the etiology, the most important prognostic factor, with hemorrhages caused by coagulation disorder following blood transfusion with good prognosis.

The treatment of the most diverse types of retinal hemorrhages must be carried out based on the severity and extent of each clinical case, as they often have the ability to resolve themselves without the need for medical intervention. However, in more serious clinical cases, the patient must undergo surgery with a trained and experienced ophthalmologist surgeon, in order to avoid any possibility of future complications, in addition to ensuring a better quality of life and comfort for the patient in question. In our clinical case, the pre-retinal hemorrhage of a girl with anemia after a blood transfusion, but it resolved without medical treatment, just the guidance we advised the girl to drink more water than before and we monitored it every month and after three months it resolved with good favorable evolution.

CONCLUSION

In most cases, pre-retinal hemorrhages resolve spontaneously. This improvement process can take weeks or months, which can result in permanent visual impairment due to the toxicity produced by blood contact with the retina.

Always remember the importance of consulting and using a good ophthalmologist. From the first sign of discomfort and changes in your usual vision, consult your doctor in order to avoid future complications and ensure good eye health.

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