



Surgery of swollen and inflamed eyes with severe exophthalmia in Oscar fish

Baes M. ¹; Rahimi P.²; Salajegheh Tazerji S. ^{3*}; Aghaei A.⁴

1-Aquatic Animal Health and Diseases Specialist, Faculty of Veterinary Medicine, Tehran University, Tehran, Iran. (The owner of DR. Fish clinic)

2-Doctorate student of Veterinary Medicine, Faculty of Veterinary Medicine, Science and Research Branch, Islamic Azad University, Tehran, Iran

3-Young Researchers and Elites club, Science and Research Branch, Islamic Azad University, Tehran, Iran

4-Doctorate student of Veterinary Medicine, Faculty of Veterinary Medicine, Shabestar, Islamic Azad University, Shabestar, Iran

*Corresponding author's email: sina.salajegheh@gmail.com

Abstract:

An Oscar fish (*Astronotus ocellatus* from cichlid family, 1 year old, 400 gr) was brought to Dr. Fish clinic (Tehran, Iran). An ophthalmic infection with hexamitiasis was diagnosed that showed the poor quality of the care provided for the fish. The result of clinical examinations of both eyes and microscopic investigation on blood smear together with wet mount of the body surface showed no trace of any parasites in the wet mount however, blood smear showed bacterial activities meaning a systemic infection of the whole body that could cause the eye problems as well. Due to lack of vision in both eyes, an eye removal surgery was needed. The Oscar was put in 5 liters of water taken from the original fish tank. 0.5 cc of the extract of carnation flower (*Dianthus caryophyllus*) was added gradually in 0.1 cc drops to the water. After surgical anesthesia, the fish was put on a clean wet towel. Eyes were held with a forceps and cut thoroughly with a scalpel. Hemorrhage was controlled via electrocautery on both eyes. Then, Oscar was put back into the original tank with a higher aeration level that caused recovery in 2 minutes. Every day for a period of 10 days, a 100mg nitrofurantoin tablet was added per 40 liters of tank water. Metronidazole was also prescribed in 5mg/L every 24 hours for 10 days. The fish was given back to the owner with new instructions shortly after recovery and started feeding 7 days after the therapeutic period.

Keywords: Oscar, fish, bacterial, surgery, eyes