

TREATMENT OF A FACIAL MYXOMA IN A
GOLDFISH (CARASSIUS AURATUS) WITH
INTRALESIONAL BLEOMYCIN
CHEMOTHERAPY AND RADIATION
THERAPY

Brittany N. Stevens, Claire Vergneau-Grosset,
Carlos O. Rodriguez, Katherine S. Hansen,
Cassandra Wilcox, Sara M. Gardhouse, Sarah
Bahan, Dayna A. Goldsmith, Esteban Soto



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Case Report

Treatment of a Facial Myxoma in a Goldfish (*Carassius auratus*) with Intralesional Bleomycin Chemotherapy and Radiation Therapy

Brittany N. Stevens, DVM

Claire Vergneau-Grosset, DVM, IPSAV, Dip. ACZM

Carlos O. Rodriguez, Jr., DVM, PhD, Dip. ACVIM (Oncology)

Katherine S. Hansen, DVM, Dip. ACVR (Radiation Oncology)

Cassandra Wilcox, DVM

Sara M. Gardhouse, DVM

Sarah Bahan, DVM

Dayna A. Goldsmith, DVM, Dip. AVCP

Esteban Soto, MSc, DVM, PhD, Dip. ACVM (Immunology, Bacteriology and Mycology)

From the Department of Veterinary Medicine and Epidemiology (Stevens, Rodriguez, Jr., Wilcox, Gardhouse, Bahan, Soto), Department of Veterinary Surgical and Radiological Sciences (Hansen), Department of Pathology, Microbiology and Immunology and Pathology Service (Goldsmith), School of Veterinary Medicine University of California, Davis, California USA; Service de médecine zoologique, Faculté de médecine vétérinaire, Université de Montréal, Saint-Hyacinthe, Quebec Canada (Vergneau-Grosset).

Address correspondence to: Esteban Soto MSc, DVM, PhD, Dip. ACVM (Immunology, Bacteriology and Mycology), Department of Veterinary Medicine and Epidemiology, School of Veterinary Medicine University of California, Davis, California 95616 USA. E-mail: sotomartinez@ucdavis.edu

Abstract

A 4.5-year-old Ranchu goldfish (*Carassius auratus*) was presented for evaluation of a slowly growing facial mass of six months' duration. The mass, identified histologically as a myxoma, was noted to be protruding into the oral cavity and causing exophthalmia of the left eye. Two intralesional chemotherapeutic treatments of 2.5 U/kg bleomycin were performed 14 weeks apart. Reported side effects consisted of mild lethargy noted for two days following the second administration. Four weeks following the initial bleomycin administration, the owner appreciated a reduction in tumor size of 60%, however tumor expansion was occurring 11 weeks following administration. Following the second administration, only 20-30% tumor reduction was noted and a shorter response interval of 8-9 weeks was noted. Two treatments with 8 Gray (Gy) fractions of megavoltage radiation were subsequently performed four weeks apart. The owner reported no adverse effects following treatment. However, this dosing regime

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