



Study of mycobacterium, a zoonosis threat to ornamental fish industry and an issue for human health

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Abstract:

Mycobacteriosis (fish tuberculosis) is one of the most common chronic diseases in ornamental fish farming. The occurrence of zoonotic diseases in ornamental fish is noteworthy due to their import and economic value. The purpose of this study is to evaluate mycobacterial contamination considering the initial data and Cross-sectional survey of fish farms in the Tehran and Kerman province. To analyze the survey, a questionnaire was made based on information of aquatic and human beings. Moreover, a case of fish tank granuloma has been reported. Symptoms in fish include excessive weight loss (P: 39%), scarring of the body (P: 43.5%), deep or surface ulcers (47.3%) and appearance of white nodules in the internal organs of the body (P: 42.1%). Diseases, especially the ones with no clinical symptoms, can damage the popularity and prosperity of these fish in sell market affecting their commercial value. Diseases without any clinical symptoms (P: 23.6%) can cause serious illness in humans, especially in people with special disease. Although, some of these symptoms may overlap. Neglecting the sanitary standards is the main cause of this disease which includes Contamination of fish farm area (P: 17.63%), water source and artificial fish breeding ponds (P: 34.7%), not conforming to safe communication rules among coworkers (P: 21.1%) and etc. therefore, consideration of sanitary standards is suggested. Observing the basics along with ongoing studies can help as prevention or controlling factor.

Keywords: Mycobacteriosis, ornamental fish, zoonotic diseases