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Suez Canal University
Faculty of Veterinary Medicine
Department of Fish Diseases and Management

**STUDIES ON ICHTHYOPHONUS DISEASE AMONG
MARINE AND FRESHWATER FISHES WITH TRIAL
TO ITS CONTROL**

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*Thesis
Presented*

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وَهُوَ الْكَافُّ سَحَرِ الْبَحْرِ لِنَاجِلُوا مِنْهُ الْحَمَا

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الْفَالِكِ مَوَاجِرَ فِيهِ وَلْيَبْغُوا مِنْ فَضْلِهِ وَالْعَلَمِ

يُسَخَّرُونَ

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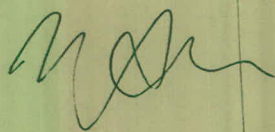
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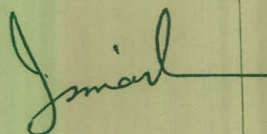


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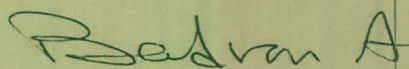


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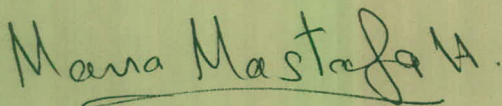
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English Abstract

The present study was occurred on a total number of 600 marine and freshwater fishes (300 from each). The results of clinical investigation revealed that, some naturally infected fish did not have any clinical abnormalities while other suffered from darkening of skin, exophthalmia and cloudy eyes and deformity of bone and skull. P.M. lesions were present of white nodules in liver, kidney, heart, spleen and intestine. *I. hoferi*, the causative agent of Ichthyophonosis was isolated on Sabouraud's dextrose agar plate + 1 % calf serum and in Minimum Essential medium + 10 % fetal calf serum from infected organs at pH 3, 5, 7, 9. The percentage of isolation *I. hoferi* from all examined fish was 62.16 % and higher prevalence in winter season and heavy weight fishes while lowest incidence in summer season. The prevalence in cultured and wild freshwater fishes were 80 % and 40 % respectively. The result of experimental infection investigated that the experimentally infected via mouth or by intraperitoneal route or by bathing with infected MEM -10 or by using heavily infected fishes, showing signs of diseases and mortality rate reached 70, 90, 40 and 30 % respectively. This histopathological examination of internal organs of *C. gariepinus* infected with *I. hoferi* revealed presence of granulomas which strongly Periodic Acid Schied positive.

Key words	Fish diseases – Ichthyophonus
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