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Fish-borne parasitic zoonoses: Impacts, prevention and control

Worldwide, humans suffer from numerous parasitic food borne zoonoses. The parasitic zoonoses of concern in this workshop are those mostly helminthic diseases caused by trematodes, cestodes and nematodes that transmitted from freshwater, brackish and marine fish causing gastroenteritis and other health problems. In the past, these diseases were limited mostly to populations living in developed, low- and middle-income countries, but the populations at risk are now expanding and changing due to many factors. The World Health Organization and the Food and Agriculture Organization of the United Nations estimate that more than 18 million persons were infected with fish-borne zoonotic trematodes in 2002 and the World Health Organization recently added fish-borne zoonotic trematodes infections to its list of emerging infectious diseases. The recognition of the public health significance of these zoonoses, their links to poverty and cultural traditions, with the lack of tools for control is also increasing. In addition, many developed countries recognized meat-borne zoonoses such as trichinellosis and cysticercosis, but fewer are acquainted with fish-borne parasitic zoonoses like intestinal trematodiasis, anisakiasis or diphyllbothriasis. The aim of this workshop is to draw attention to the problem of these zoonoses and, hopefully, inspire greater efforts to acquire reliable global impact assessments and to develop scientific basis for designing their prevention and control programs. We will focus on fish-borne parasitic zoonoses that are currently considered the most significant and also present references to others that occur in various regions. The emphasis is on basic biological and epidemiological features so as spot light on gaps that need greater research investment, effective prevention and control strategies.

Biography

Nisreen E Mahmoud, currently holds the position of a professor in the department of parasitology in the University of Cairo since 2004. Her field of specialization is Fish Parasitology. She joined as an Assistant Lecturer from 1990 to 1994. Lecturer of Parasitology since 1994. Assistant Professor of Parasitology since Sept. 1999. Prof. of Parasitology since 2004. She had received her MVSc (Parasitology, fish parasites) in 1990 and PhD (Parasitology, fish parasites) from Cairo University in 1994. She is the chair and member of the following committees & associations: Chairing in the project of Biotechnological control of ticks in Egypt (from 1995-1996). Chairing in the project of Geographical information systems (GIS) and control of snail borne diseases. Member of the Egyptian Vet. Med. Assoc. Member of the zoological society A. R. Egypt. Member of fish committee of the general organization for veterinary services, Egypt. (G.O.Vet.S.) Member of the fish committee for the solution of Lake Naser fish helminth problems in G. O. Vet. S. Egypt. Attendin a training course on fish Parasites in General Authority for Fish Resources Development 2002. Member of the Egyptian Society of Veterinary Parasitology. Member of the Egyptian Society of Parasitology. Chairing in the Project Comparative study of Lime Borreliosis Vectors/ Pathogenesis (Egyptian/US Project # 930312. from 1999-2002). Member of the Egyptian Society of Environment and Aquatic Animal Health.

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