

Biology, Epidemiology, Clinical Features, Diagnosis, and Treatment of Selected Fish-borne Parasitic Zoonoses

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Fish-borne parasites have been part of the global landscape of food-borne zoonotic diseases for many decades and are often endemic in certain regions of the world. The past 20 years or so have seen the expansion of the range of fish-borne parasitic zoonoses to new geographic regions leading to a substantial public health burden. In this article, we summarize current knowledge about the biology, epidemiology, clinical characteristics, diagnosis, treatment and control of selected fish-borne helminthic diseases caused by parasitic roundworm (*Anisakis*), tapeworm (*Dibothriocephalus*), and fluke (*Metagonimus*). Humans acquire infection via consumption of raw or improperly cooked fish or fish products. The burden from these diseases is caused by morbidity rather than mortality. Infected patients may present with mild to severe gastrointestinal (eg, abdominal pain, diarrhea, and indigestion) or allergic manifestations. Patients are often admitted to the hospital or clinic with acute symptoms and no prior health problems and no travel history. Diagnosis is often established based on the detection of the diagnostic parasite stages (eg, eggs or tapeworm segments) in the patient's feces. Sometimes imaging is required to exclude other causes and avoid unnecessary surgery. *Dibothriocephalus* and *Metagonimus* are mainly treated with praziquantel. Extraction of adult *Dibothriocephalus* or *Anisakis* larvae from the bowel ensures complete elimination of the parasites and prevents a relapse of infection. The development and implementation of more efficient food safety and public health strategies to reduce the burden of zoonotic diseases attributable to fish-borne parasites is highly desirable.

INTRODUCTION

Among the etiological agents of emerging zoonotic diseases are several parasitic helminths (worms) that naturally reside in fish and belong to diverse taxonomic groups, including roundworms, tapeworms, and flukes.

In recent years, fish-borne parasitic helminthiasis has emerged as a major food safety concern which can impose significant public health and economic impacts [1]. By the start of the new millennium, fish-borne zoonotic trematodes accounted for more than an estimated 18 million infections [2]. The available evidence suggests that

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Abbreviations: GI, gastrointestinal; L3, third-stage larva

Keywords: Anisakiasis, Diphylobothriasis, Metagonimiasis, Fish-borne zoonoses

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Parasitic Zoonoses Clinical And Experimental Studies

Fritz P. Gluckstein



Parasitic Zoonoses Clinical And Experimental Studies:

Parasitic Zoonoses World Association for the Advancement of Veterinary Parasitology, 1974 Parasite Infections: From Experimental Models to Natural Systems Toni Aebischer, Kai Matuschewski, Susanne Hartmann, 2018-07-06 Eukaryotic parasites including parasitic protozoans worms and arthropods are more complex and heterogeneous organisms than pathogenic bacteria and viruses This notion implies different evolutionary strategies of host exploitation Typically parasites establish long term infections and induce relatively little mortality as they often limit pathological changes by modulating host cells and downregulating adverse immune responses Their pattern of distribution tends to be endemic rather than epidemic Despite these seemingly benign traits parasites usually cause substantial chronic morbidity thus constituting an enormous socioeconomic burden in humans particularly in resource poor countries and in livestock worldwide Parasite induced fitness costs are an evolutionary force that can shape populations and contribute to species diversity Therefore a thorough understanding of parasites and parasitic diseases requires detailed knowledge of the respective biochemical molecular and immunological aspects as well as of population genetics epidemiology and ecology This Research Topic RT bridges disciplines to connect molecular immunological and wildlife aspects of parasitic infections The RT puts emphases on four groups of parasites Plasmodium Toxoplasma Giardia and intestinal helminths Co infections are also covered by the RT as they represent the most common form of parasite infections in wildlife and domestic animal populations Within the four types of parasites the following topics are addressed 1 Experimental models hypothesis testing translation and limits 2 Critical appraisal of experimental models 3 Natural systems Technological advances for investigations in natural parasite host systems and studies in natural systems 4 The urgent need for better models and methods in natural parasite systems Hence the RT covers and illustrate by the means of four main parasitic infections the parasite host system at the molecular cellular and organismic level **Bibliography of Agriculture** ,1975-07 **Zoonoses** Fritz P. Gluckstein, 1974 *The Antigens* Michael Sela, 2014-05-10 The Antigens Volume VI is a comprehensive treatise covering all aspects of antigens including their chemistry and biology as well as their immunologic role and expression Parasite antigens and their immunogenicity in infected hosts are explored along with the nature of the antibody combining site and the phenomenon of immunological tolerance Comprised of three chapters this volume begins with a discussion on the dynamic aspects of the function of antibodies paying particular attention to the structure of immunoglobulins and the folding of their domains the dynamics of segmental flexibility the kinetics of antibody hapten association and the kinetic expression of elementary interaction and the conformational transitions within the antibody molecule induced by hapten binding The next chapter focuses on the immunogenicity of parasite antigens in infected hosts citing such parasites as trypanosomes Schistosoma mansoni and Fasciola hepatica The last chapter deals with immunological tolerance its induction and duration and its effect on the specificity of the immune response This monograph will be of interest to practitioners and researchers in immunology

experimental and clinical medicine biochemistry and other disciplines Modelling Vector-borne and Other Parasitic Diseases Hansen, J.W (ed.), Brain D. Perry, 1994-01-01 Parasitic Protozoa, 2012-12-02 Updated and much expanded the Second Edition of Parasitic Protozoa is designed to be useful to physicians veterinarians and research scientists concerned with diseases caused by protozoa in man and in domestic and wild animals including fish mollusks and insects as well as the more commonly considered vertebrate animals Each section contains information on disease pathogens treatment diagnosis and epidemiology of the diseases caused by the various protozoans The book is not limited to these medically oriented subjects but treats taxonomy morphology and metabolism of the organisms in such a way as to be of interest to scientists and graduate students working in the field of protozoology The entire edition published in ten volumes is arranged so that subjects of common interest occupy individual volumes Proceedings of 3rd International Conference on Influenza and Zoonotic Diseases 2017 Conference Series, August 21 22 2017 Birmingham UK Key Topics Zoonotic Diseases Global Infectious Disease Burden Pathogenicity of Influenza Virus Types of Zoonotic Diseases and Transmission Influenza Vaccines and Vaccination Influenza Causes Symptoms and Treatment Influenza Strains Detection and Differentiation Antiviral Drug Development and Treatment Strategies Including Vaccination Advances in Viral Detection and Identification Technologies Host Genetics of Infection and Immunology Evolution and Epidemiological Aspects of Influenza and Zoonotic Diseases Neglected Tropical and Communicable diseases Vaccines against Zoonotic Diseases Tracking and Preventing Zoonotic Disease **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1976 *Agents Transmissible from Simians to Man* Manfred Brack, 2012-12-06 The contacts between man and nonhuman primates enable the transmission of microorganisms from one species to the other Such contact may occur at quite different levels man and nonhuman primates may share the same ecosystem including the presence of vectors in the countries of origins of monkeys and apes the animals are captured to be sold or used for food field researchers have to stay near the animals in the wild an uncontrolled human population gets close enough to almost touch the animals in zoological gardens around the world pet owners establish bodily contact and finally researchers doing surgery or necropsies are exposed to an increased number of pathogens liberated from the organs and body fluids Usually monkeys and apes are more threatened with catching the microorganisms indigenous to man than vice versa but nevertheless outbreaks of true zoonoses with nonhuman primates as the source of infection have occurred Also the retransmission of originally human pathogens via nonhuman primates to man may pose a considerable risk to human health Unfortunately the information on the different agents transmissible between man and his relatives is too disseminated for practical use as it involves quite different scientific disciplines such as virology bacteriology parasitology primatology laboratory animal science etc It seemed therefore necessary to compile the current knowledge concerning this topic in a single publication Human infections of simian origin may be caused by several viruses bacteria fungi or endoparasites Ectoparasites in comparison are of little importance *Conservation Medicine* A. Alonso

Aguirre, Richard S. Ostfeld, Gary M. Tabor, Carol House, Mary C. Pearl, 2002-09-26 Conservation medicine is an emerging discipline focussing on the intersection of ecosystem health animal health and human health Work in the biomedical and veterinary sciences is now being folded into conservation biology to explore the connections between animal and human health trace the environmental sources of pathogens and pollutants develop an understanding of the ecological causes of changes in human and animal health and understand the consequences of diseases to populations and ecological communities Conservation Medicine defines this new discipline It examines ecological health issues from various standpoints including the emergence and resurgence of infectious disease agents the increasing impacts of toxic chemicals and hazardous substances and the health implications of habitat fragmentation and degradation and loss of biodiversity It will provide a framework to examine the connections between the health of the planet and the health of all species and challenge practitioners and students in the health sciences and natural sciences to think about new collaborative ways to address ecological health concerns

Parasites and Western Man R.J. Donaldson, 2012-12-06 The purpose of this book is to provide a concise account of those parasites which affect man in developed countries Other textbooks relate mainly to the tropics and subtropics where parasites by comparison are more common It is widely believed that this difference in prevalence between tropical and temperate countries is due to differences in climatic conditions alone Whilst it is true that certain vectors can only act as transmitters of disease under climatic conditions found in the tropics there are many other instances where climate per se is not a decisive factor More often parasitic disease is related to the poor standards of hygiene sanitation and nutrition which characterize many of these tropical and subtropical areas The advent of more international travel has added a new dimension to the study of parasites with the appearance of rare and exotic parasitic infections in the West This book encompasses the entire field of parasites in developed countries with a brief reference to other parts of the world whenever appropriate for the sake of completeness Each chapter provides basic information as well as recent advances and current thinking Thus the book will serve as an excellent comprehensive introduction to those taking up a specialized interest in the subject as well as those who may wish to obtain general information but are not actively working in the field Although it is primarily written from a medical and veterinary stand point it provides valuable material for other disciplines

Gregarines, Haemogregarines, Coccidia, Plasmodia, and Haemoproteids Julius Kreir, 1977-01-01 Gregarines Haemogregarines Coccidia Plasmodia and Haemoproteids

Arthropod Venoms S. Bettini, 2013-03-13 Arthropod venoms have received much attention and have played an important role in folklore and medicine since ancient times Scorpion envenomation tarantism bee and wasp stings are among those subjects about which most has been speculated and written in the past In the last 50 years or so a great number of scientific papers have been devoted to arthropod venoms but only a few volumes have been designed to collect this rapidly increasing material and these are not recent Of late the chemistry and mode of action of several arthropod venoms have been thoroughly studied and some of these substances will probably be

used as pharmacological tools and also as therapeutic agents The aim of the present volume is to collect in manual form new information as well as the old notions on arthropod venoms Even though it was our intention to present a volume on arthropod venoms and not on venomous arthropods inevitably we were forced to include information on venom producing organisms as well We assumed in fact that those scientists for whom the present manual is primarily intended biochemists particularly comparative biochemists and pharmacologists should be familiar with the biologic elements concerning the venom producing species which should show them how important it is to operate in close collaboration with biologists specialized in venomous arthropod systematics and biology

Parasitic Zoonoses B.B.Singh Dhaliwal, Prayag Dutt Juyal, 2013-08-13 The book Parasitic Zoonoses emphasizes a veterinary and public health perspective of zoonotic parasites This book is suitable for higher undergraduate and graduate students of zoonoses and public health veterinary parasitology parasite epidemiology public health workers public health veterinarians field veterinarians medical professionals and all others interested in the subject More than 15 protozoa and 50 other parasitic diseases are zoonotic in nature and all these diseases have been discussed in detail The first chapter is concerned with classification of zoonotic parasites food borne vector borne and occupation related zoonotic parasites The remaining chapters cover etiology epidemiology life cycle transmission clinical signs diagnosis prevention and control of zoonotic parasites The text is illustrated with a large number of coloured figures An alphabetical bibliography for every disease has also been included so that readers have access to further information

Practical Tissue Culture Applications Karl Maramorosch, 2012-12-02 Practical Tissue Culture Applications contains the proceedings of a conference held at the International Laboratory for Research on Animal Diseases in Nairobi Kenya August 24-29 1978 This book aims to describe some of the more important practical applications of in vitro techniques in a simple easily understandable manner Organized into three sections with a total of 27 chapters this book provides critical reviews describes various techniques and presents complete step by step methodology It emphasizes applications pertaining to the health and economy in developing nations In particular this book discusses the pitfalls in preparing general purpose culture media balanced salt solutions and the procedures followed in the development of modern in vitro techniques It also describes techniques for cultivation of vertebrate cells and organs plant tissue culture and its numerous applications and electron microscopy of cultured cell This book explains as well virus isolation and identification in cell cultures mass production of cells for vaccines and use of cultured cells for drug evaluation The applications of in vitro techniques to parasitology are explored in numerous chapters of this book Considering the potential benefit of application of in vitro techniques this reference material will be of interest both in developed and developing countries

PATHOLOGY OF DOMESTIC ANIMALS 3E K.V.F. Jubb, 1985-04-28 **PATHOLOGY OF DOMESTIC ANIMALS 3E V2** *Advances in the Control of Theileriosis* A.D. Irvin, M.P. Cunningham, A.S. Young, 2012-12-06 Approximately five years have elapsed since the Conference on Tick borne Diseases and their Vectors Wilde 1978 University of Edinburgh was held at the Centre for Tropical

Veterinary Medicine in Edinburgh Theileriosis was one of the main topics at that Conference and some 20 scientific presentations were given Also in the same year a Workshop on Theileriosis was held at the Kenyatta Conference Centre in Nairobi Henson Campbell 1977 IDRC Ottawa Both of these meetings provided a valuable up dating of theilerial diseases and the Proceedings have been a constant source of reference for scientists in the ensuing years The meetings played a significant role in setting the scene for a number of important advances which have been made since then In February of this year attention was focused on these advances when nearly 200 scientists from over 30 countries were assembled at the International Laboratory for Research on Animal Diseases in Nairobi for the international conference on Advances in the Control of Theileriosis The interest and concern shown in this subject has now grown to the extent that more than 70 scientific presentations were given over the course of a very busy week An important facet of the Conference was the attention given to the control of Theileriosis since this must be the ultimate aim of all those involved with the disease Control will be difficult

Research Priorities for Zoonoses and Marginalized Infections TDR Disease Reference Group on Zoonoses and Marginalized Infectious Diseases of Poverty, World Health Organization, 2012 This report provides a review and analysis of the research landscape for zoonoses and marginalized infections which affect poor populations and a list of research priorities to support disease control The work is the output of the disease reference group on zoonoses and marginalized infectious diseases DRG6 which is part of an independent think tank of international experts established and funded by the Special Programme for Research and Training in Tropical Diseases TDR to identify key research priorities through the review of research evidence and input from stakeholder consultations The report covers a diverse range of diseases including zoonotic helminth protozoa viral and bacterial infections considered to be neglected and associated with poverty Disease specific research issues were elaborated under individual disease sections and many common priorities were readily identified among the disease such as need for new and or improved drugs and regimens diagnostics and where appropriate vaccines The disease specific priorities are described as micro priorities compared with the macro level priorities which will drive such policies as the need for improved surveillance the need for inter sectoral interaction between health livestock agriculture natural resources and wildlife in tackling the zoonotic diseases and the need for a true assessment of the burden of the zoonoses This is one of ten disease and thematic reference group reports that have come out of the TDR Think Tank all of which have contributed to the development of the Global Report for Research on Infectious Diseases of Poverty

The Protozoan Phylum Apicomplexa Norman D. Levine, 2018-01-18 About the turn of the century the Apicomplexa plus some other groups were called Sporozoa With the advent of the electron microscope it was realized that most Sporozoa have an apical complex those which do not the Microspora Myxozoa and Ascetosporea were removed and the name Apicomplexa was put forward by Dr Levine in 1970 Most of the important Apicomplexa fall into five main groups the gregarines haemogregarines about which there is relatively little known coccidia haemosporids and piroplasms These two

volumes classify list with synonyms and hosts and give references to descriptions of the approximately 4600 species of Apicomplexa that have been named so far Volume I contains an 8 page introduction and covers the gregarines and coccidia including the haemogregarines In volume II are the Sarcocystidae the predator prey coccidia the haemosporids the malaria and related parasites the piroplasms and some parasites of uncertain affinities The Apicomplexa are divided into over 300 genera and more than 60 families but this division is deceiving Most of these groups contain only one or a few species There are fewer than 50 genera with 10 or more named species and only 8 with 100 or more These 8 genera Eimeria Haemogregarina Gregarina Isospora Haemoproteus Plasmodium Sarcocystis and Babesia comprise more than half of the species

Unveiling the Magic of Words: A Overview of "**Parasitic Zoonoses Clinical And Experimental Studies**"

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