

Risk Assessment and Control of Waterborne Giardiasis

ABSTRACT

Background: Waterborne giardiasis has been increasing in the United States with 95 outbreaks reported over the last 25 years. The Safe Drinking Water Act has mandated control of this pathogen.

Methods: A risk assessment model was developed to estimate risk of infection after exposure to treated waters containing varying levels of *Giardia* cysts. The model was defined by a dose-response curve developed from human feeding studies for *Giardia* and assumed 2L of water consumption per day. Data on concentrations and distribution of the organism in source waters were used to assess exposure after varying reductions achieved through treatment.

Results: In surveys reporting prevalence and levels of *Giardia* cyst contamination, average levels of cysts in surface waters ranged from 0.33 to 104/100L; from pristine watersheds (protected from all human activity) 0.6 to 5/100L. Yearly risks were 4.8×10^{-3} for systems using polluted waters and 1.3×10^{-4} for pristine waters with a 10^{-2} treatment reduction.

Conclusions: Public Health officials will need to work with the water industry to ensure a risk of less than 1/10,000 for source waters with 0.7 to 70 cysts per 100 liters through treatment achieving reduction of 10^{-2} to 10^{-3} , respectively, of *Giardia* cysts. (*Am J Public Health*. 1991;81:709-713)

Joan B. Rose, PhD, Charles N. Haas, PhD, and Stig Regli

Introduction

Giardia is the most frequently isolated enteric protozoan from populations worldwide and the most common pathogenic parasite in the United States.¹ Waterborne giardiasis has been increasing in the United States with 95 outbreaks reported over the last 25 years,² and *Giardia* is the most common identifiable etiological agent of all waterborne outbreaks. Bennet *et al.*³ have also estimated that 60 percent of all *Giardia* infections are acquired through contaminated water.

Giardia cysts may be found in water as a result of the deposition of fecal material from both man and animals. Surveys of *Giardia* cyst levels in various waters indicate that 26-43 percent of the surface waters were contaminated with *Giardia* cysts ranging in concentrations from 0.3 to 100 cysts per 100L.⁴⁻⁶ Sykora⁶ has reported an average of 10^4 cysts/100L in raw sewage with an approximate reduction of 10^{-2} after treatment (152 cysts/100 L).

The Surface Water Treatment Rule has been promulgated to address the amendments to the Safe Drinking Water Act for controlling *Giardia* in treated drinking water.⁴ This rule mandates that all surface waters be treated to achieve at least a reduction of 10^{-3} (99.9 percent removal) of *Giardia* cysts. Disinfection is required for all systems and filtration is required unless the system meets site specific criteria and has a protected watershed. The US Environmental Protection Agency (EPA) has also recommended that a treatment be provided to ensure that populations are not subject to risk of infection of greater than 1:10,000 (10^{-4}) for a yearly exposure, and that this is an acceptable level of safety for potable waters.

As the new regulations and rules come into effect, health departments will

be called upon to ensure that the public is adequately protected against waterborne disease. Risk assessment is a tool by which health officials can communicate with the water industry by interpreting water quality surveys and assisting in defining the adequacy of treatment adhering to EPA's recommendations of potable water quality and acceptable public health risks. This will become particularly important as states implement the Surface Water Treatment Rule, evaluate new technologies, and determine what water management practices will impact public health.

This paper presents a risk assessment model that was used to estimate risk of infection due to waterborne exposure to *Giardia*. Dose-response curves were developed based on human infectivity studies, and data on the occurrence of *Giardia* cyst contamination in waters throughout the US were used to define the water treatment needed to reduce the risk of waterborne giardiasis.

Methods

To predict a potential public impact when the risk is small, models are used to estimate the risk after exposure. Haas reviewed three probability models for their ability to describe experimental dose-response data for humans after exposure to

Address reprint requests to Joan B. Rose, PhD, Assistant Professor, Department of Environmental and Occupational Health, University of South Florida, 13301 Bruce B. Downs Blvd, Tampa, FL 33612-3899. Dr. Haas is with the Department of Environmental Engineering, Illinois Institute of Technology; Mr. Regli is with the Office of Drinking Water, US Environmental Protection Agency, Washington, DC. This paper, submitted to the Journal April 19, 1990, was revised and accepted for publication December 10, 1990.

Controlling Waterborne Giardiasis

P. M. Wallis, Brian R. Hammond



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Controlling Waterborne Giardiasis Gary S. Logsdon, 1988 Controlling Disinfection By-products and Microbial Contaminants in Drinking Water Robert M. Clark, Brenda K. Boutin, 2001 **Handbook of Water and Wastewater Treatment Plant Operations** Frank R. Spellman, 2003-06-24 Water and wastewater treatment plant operators must have a breadth of knowledge that encompasses more than scientific theory They need to be generalists with knowledge bridging several scientific academic and engineering disciplines Unfortunately until now many of the existing texts in the field were too limited in scope and narrow in focus *Waterborne Zoonoses* J. A. Cotruvo, A. Dufour, G. Rees, Jamie Bartram, R. Carr, D. O. Cliver, G. F. Craun, Ronald Fayer, V. P. J. Gannon, 2004-07-31 Zoonoses are caused by microorganisms of animal origin that can also infect humans Apart from human to human transmitted pathogens they are the microorganisms of greatest concern in regard to threats to drinking water and ambient water safety now and in the future A significant number of emerging and re emerging waterborne zoonotic pathogens have been recognized over recent decades SARS E coli O157 H7 and Cryptosporidium provide examples of zoonoses with waterborne routes of transmission Developed from an expert workshop of 29 scientists convened by the World Health Organization and the United States Environmental Protection Agency USEPA *Waterborne Zoonoses Identification Causes and Control* provides a critical assessment of current knowledge about waterborne zoonoses and identifies strategies and research needs for controlling future emerging waterborne zoonoses This book provides guidance to agriculturists veterinarians worldwide health agencies and water providers to anticipate potential future waterborne disease problems and to determine whether current practices will be protective or whether new approaches need to be deployed to better protect the health of both humans and animals Contents Expert Consensus An Introduction To Emerging Waterborne Zoonoses and General Control Principles Water Related Zoonosis Disease Impacts Geographical Prevalence Epidemiological Data Case Studies and Outbreaks Categories of Waterborne Disease Organisms Analysis of Zoonotic Microorganisms Prevention and Control of Waterborne Zoonoses Risk Assessment and Regulation Future Emerging Waterborne Zoonoses **Infectious Diseases Diagnosis** H. V. Smith, L. H. Chappell, W. H. Stimson, 1998 Examines methods for diagnosis of infectious agents in humans and animals and detection of pathogens in food and water *The Science of Water* Frank R. Spellman, 2020-10-05 The Science of Water Concepts and Applications Fourth Edition contains a wealth of scientific information and is based on real world experience Building on the third edition this text applies the latest data and research in the field and addresses water contamination as a growing problem The book material covers a wide range of water contaminants and the cause of these contaminants and considers their impact on surface water and groundwater sources It also explores sustainability and the effects of human use misuse and reuse of freshwater and wastewater on the overall water supply Provides Valuable Insight for Water Wastewater Practitioners Designed to fill a gap in the available material about water the book examines water reserve utilization and the role of policymakers involved in the

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Federation ,1991 Giardiasis Ernest Alan Meyer,1990 This book focuses on the developments of giardiasis during the last decade taking into account factors which have contributed to this including the introduction of anti Giardia agents and the development of culture methods for Giardia Now recognized as one of the 10 major parasites of humans Giardia is found world wide and although transmitted fecal orally the precise means of transmission varies The diverse views held in different parts of the world regarding the treatment of Giardia infected individuals are reconciled in this book to provide an up to date comprehensive and single source reference compiled by experts foremost in their field The ultimate aim of the book is to considerably help promote research in this area and thereby decrease the extensive impact of giardiasis The scope of potential readers is broad including the researcher teacher clinician and public health administrator alike *Methods for the Investigation and Prevention of Waterborne Disease Outbreaks* Gunther F. Craun,1990 The Drinking Water Handbook Frank R. Spellman,2017-10-12 This new edition of The Drinking Water Handbook is thoroughly revised and updated and includes a comprehensive discussion of the Flint Michigan lead contamination event new coverage of contaminants in water such as personal care products and pharmaceuticals PCPP and endocrine disruptors and examines the security requirements for waterworks and ancillary procedures It examines the process of producing drinking water from sources of water to the purification process through distribution systems to the tap and then to the actual use and reuse of water It also reflects the latest advancements in treatment technologies and reviews new laws and regulations related to drinking water **Prevention and Control of Sewer System Overflows, 3e - MOP FD-17** Water Environment

Federation,2011-09-29 The Latest Sewer System Overflow Prevention Methods Fully revised throughout this Water Environment Federation resource provides up to date information necessary to help managers and engineers understand and analyze an overflow problem and offers guidance on finding the most efficient feasible and cost effective strategies to reduce or eliminate such overflows This authoritative volume also serves as a planning guide for developing long term control plans for combined sewer overflows CSOs and sanitary sewer overflows SSOs Prevention and Control of Sewer System Overflows Third Edition covers Definitions and causes of overflows Regulatory guidelines Information management System

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 Hongde Zhou,Northern River Basins Study (Canada),Daniel W. Smith,Stephen John Stanley,1996 This report reviews the
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 and notes on costs and status of technology development In addition the impacts of important micro organisms and relevant
 regulations are examined to highlight the significance and requirements of removing micro organisms from water treatment
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 Northern River Basins Study area Types of technologies examined include pre filtration processes such as coagulation and
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 clarifier suitable for small communities are also reviewed **Health-related Water Microbiology** ,1993 **Proceedings,**
Water Quality Technology Conference ,1987 **American Journal of Public Health** ,1988 Includes section Books and
 reports Giardia R. C. A. Thompson,J. A. Reynoldson,A. J. Lymbery,1994 Giardia is a parasitic protozoan which is
 attracting considerable interest worldwide It can cause severe gastrointestinal problems in humans and has also been
 reported in a number of domestic and wild mammals This book addresses major issues and new developments concerning
 Giardia and giardiasis *Environmental Engineering* Massoud Pirbazari,Joseph S. Devinny,1984 **The Engineering**
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bedeutung ist der handel bietet ein reichhaltiges sortiment an entsprechenden artikeln angefangen bei motivvorlagen
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