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## *Cryptosporidium parvum* among Cancer and Hemodialysis Patients in Ibb City, Yemen: Prevalence and Risk Factors

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### Abstract:

**Background:** *Cryptosporidium parvum* is an opportunistic gastrointestinal parasite that cause serious problems for immunocompromised patients. **Aims:** This study aimed to report on the prevalence of *C. parvum* among cancer and hemodialysis patients attending cancer and dialysis centers at Al-Thawra hospital in Ibb city, Yemen. **Methods:** This study is a cross-sectional study conducted among 60 patients with cancer and hemodialysis patients during the period from March to September 2020. The stool specimen was from each patient and *C. parvum* was screened by using formalin-ether sedimentation and modified Ziehl-Neelsen staining. The required data were surveyed by a structured questionnaire. **Results:** Out of 60 stool specimens, only 49(81.7%) were positive for *C. parvum* infection. The cancer patients had more rate of *C. parvum* (90%) than hemodialysis patients (73.3%). Also, the highest rate of *C. parvum* was observed among male participants with cancer (95%) and hemodialysis (76.9%) diseases. The higher frequency of infection was among hemodialysis patients in the age group of 31-40 years. The cancer patients coming from rural areas and hemodialysis patients coming from urban areas had a higher rate of *C. parvum* infection, the majority of patients drinking from well water were positive for *C. parvum* infection. Both cancer and hemodialysis patients with poor personal behavior were more exposed to *C. parvum* infection. Diarrhea, abdominal pain, malaise, poor appetite, nausea, and fever were the most frequent clinical features presented among cancer and hemodialysis patients. Similarly, all cases were completely (100%) found to be suffering from recurrent diarrhea. **Conclusion:** It can be concluded that health education and awareness programs should be implemented directing immunocompromised individuals for preventing and controlling the transmission of opportunistic parasites.

**Keywords:** *Cryptosporidium parvum*, Ibb City, Cancer, Hemodialysis Patients, Yemen.

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# Two City Cryptosporidium Study

**F. J. Frost, T. R. Kunde**



## **Two City Cryptosporidium Study:**

Two City Cryptosporidium Study Floyd Frost, Tim Muller, 1999      Northwest Epidemiologic Enteric Disease Study F. J. Frost, T. R. Kunde, 2005-07-31 Past studies suggest that source water quality may be an important predictor of the risk of endemic waterborne infection. However, the relationship between endemic infections and the risk of illness is unclear. A primary goal of the study was to estimate endemic levels of diarrhea and gastrointestinal diseases. The primary objective of the study was to estimate the level of infectious gastrointestinal disease attributable to drinking water. A secondary objective was to determine if drinking water attributable endemic levels of gastrointestinal diseases are elevated in a community that uses unfiltered water from a well-protected surface water source. Originally published by AwwaRF for its subscribers in 2004. This publication can also be purchased and downloaded via Pay Per View on Water Intelligence Online; click on the Pay Per View icon below.      *Indicators for Waterborne Pathogens* National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Board on Life Sciences, Committee on Indicators for Waterborne Pathogens, 2004-05-19 Recent and forecasted advances in microbiology, molecular biology, and analytical chemistry have made it timely to reassess the current paradigm of relying predominantly or exclusively on traditional bacterial indicators for all types of waterborne pathogens. Nonetheless, indicator approaches will still be required for the foreseeable future because it is not practical or feasible to monitor for the complete spectrum of microorganisms that may occur in water and many known pathogens are difficult to detect directly and reliably in water samples. This comprehensive report recommends the development and use of a tool box approach by the U.S. Environmental Protection Agency and others for assessing microbial water quality in which available indicator organisms and/or pathogens in some cases and detection methods are matched to the requirements of a particular application. The report further recommends the use of a phased three-level monitoring framework to support the selection of indicators and indicator approaches.      *Drinking Water Regulation and Health* Frederick Pontius, 2003-07-18 The Drinking Water Act Amendments of 1996 instituted wide-ranging regulatory changes to the seminal Safe Drinking Water Act (SDWA), such as providing funding to communities facing health risks, focusing regulatory efforts on contaminants posing such health risks, and adding flexibility to the regulatory process. The amendments continue to shape regulations and regulatory policy to this day. Editor Frederick Pontius's *Drinking Water Regulation and Health* provides a comprehensive up-to-date resource on the current regulatory landscape. *Drinking Water Regulation and Health* serves as a guide for water utilities, regulators, and consultants forecasting future trends and explaining the latest developments in regulations. A diverse group of contributors covers topics such as water treatment, water protection, how some of the regulations have been interpreted in the courts, how water utilities can stay in compliance, and how to satisfy customer expectations, especially sensitive subpopulations. Divided into four sections: The SDWA and Public Health Regulation, Development, Contaminant Regulation, and Treatment and Compliance Challenges, the book includes chapters on Improving

Waterborne Disease Surveillance Application of Risk Assessments in Crafting Drinking Water Regulations Control of Drinking Water Pathogens and Disinfection By Products Selection of Treatment Technology for SDWA Compliance Death of the Silent Service Meeting Consumer Expectations Achieving Sustainable Water Systems What Water Suppliers Need to Know About Toxic Tort Litigation Drinking Water and Infectious Disease Paul Raymond Hunter, Michael Waite, Elettra Ronchi, 2002-07-30 In many countries considerable uncertainty still exists about the contribution of drinking water to sporadic cases of disease The Organization for Economic Cooperation and Development OECD in cooperation with the World Health Organization WHO led the Workshop on Molecular Technologies for Safe Drinking Water in 1998 to address the role of water in *Zoonotic Diseases: Epidemiology, Multi-omics, and Host-pathogen Interactions, vol II* Lei Deng, Hong Yin, Thet Aung, 2026-02-19 Zoonotic diseases infections transmitted between animals and humans are a significant concern in public health due to their ability to cause severe potentially fatal illnesses or conversely present asymptotically in hosts These diseases constitute approximately 60% of all human diseases and 75% of emerging infectious diseases highlighting their considerable impact on global health paradigms While some progress has been made in understanding these pathogens significant gaps remain particularly in how these diseases emerge evolve and spread across species This Research Topic aims to enhance understanding of zoonotic diseases by examining their pathogenesis molecular evolution transmission dynamics and host pathogen interactions Research will also focus on innovative prevention and control strategies to address these pressing public health challenges The ultimate goal is to fill existing knowledge gaps particularly in neglected diseases and improve management strategies for infections that can cross species barriers thereby safeguarding global health To delve deeper into the intricacies of zoonotic diseases and magnify their broader health implications this Research Topic will cover a range of themes including Prevalence host specificity and the epidemiology of zoonotic diseases Advanced methods in genomic transcriptomic and proteomic analysis to track pathogen evolution The impact of zoonotic diseases on host health and the mechanisms of the disease In depth analysis of host pathogen interactions focusing on aspects like phages and antimicrobial resistance Cutting edge prevention and control techniques for managing zoonotic diseases By targeting these key areas this Research Topic aims to promote a comprehensive understanding and innovative solutions for managing zoonotic diseases effectively Water Encyclopedia, Domestic, Municipal, and Industrial Water Supply and Waste Disposal Jay H. Lehr, 2005-06 Volume 1 outlines water supply infrastructure The requirements for supplying water to a home a city or a factory can be very different Experts in these fields explain the nuances of the details involved in maintaining adequate quantity and quality for these different consumers Waste water management can be of even greater concern yet its management can follow similar paths when compared to sophisticated water supply treatment Both the physics and chemistry of these fields are fully covered Volume 2 deals with the big picture of regional water supplies how they become contaminated how they can be protected and how they can best serve the surrounding populations and industries Significant

focus is placed upon the natural chemistry of available water supplies and its biological impacts Case studies from regions around the world offer an excellent picture of the world s water resources **American Book Publishing Record** ,2000  
*Critical Issues in Water and Wastewater Treatment* Joseph N. Ryan, Marc Edwards, American Society of Civil Engineers. Environmental Engineering Division, 1994 Contains short versions of most of the 114 papers presented at the 1994 Specialty Conference on Environmental Engineering held in Boulder Colorado This title discusses topics such as microbes in drinking water contaminated groundwater remediation and the effects of floods on hazardous waste sites Applied and Environmental Microbiology ,2007 *The Philippine Journal of Science* ,2008 Rev Inst Med Trop Sao Paulo ,2009  
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