



Reuse of sewage treated effluent in agricultural practices: An alarming presence of *Giardia* spp. cysts

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ABSTRACT

It was evaluated the removal efficiencies of *Giardia* spp. cysts and helminth eggs by a simplified system of wastewater treatment. The treated effluent was destined to be reused in agricultural practices. The system was composed by anaerobic filter and intermittent sand filter. Final effluent concentration was: COD of $52 \pm 24 \text{ mg L}^{-1}$, TSS of $17 \pm 20 \text{ mg L}^{-1}$ and low turbidity values ($3 \pm 4 \text{ NTU}$). The anaerobic filter could remove $99.7 \pm 28.7\%$ of estimated cysts concentration in the raw sewage. The sand filter removed $38.0 \pm 31.6\%$ of *Giardia* spp. cysts from the anaerobic effluent, indicating the total efficiency of the system to 99.0% . The system could also remove 100% of helminth eggs. However, we also identified 93 ± 92 cysts L^{-1} in the final effluent. Thus, there is a necessity to further study these decentralized systems in order to prevent the spread of infectious parasites from in agricultural practices.

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1. Introduction

The lack of wastewater treatment is an environmental and public health problem. Among the pathogenic agents that cause waterborne diseases, protozoa and helminths are more prominent (Quintero-Betancourt et al., 2003; Macpherson, 2005). These parasites have great resistance to adverse environmental conditions and the ingestion of small numbers of cysts and eggs is enough to cause infection. These characteristics enable them to be responsible for most of the parasitic diseases that affect humans and animals worldwide, especially in rural areas (Kierszenbaum, 1994; Avall et al., 2000).

Giardia duodenalis is the most isolated parasite in the human gastrointestinal system. Approximately 20% of world population is parasitized by this protozoan (Nasser et al., 2012). The amount of people parasitized by helminths is also high. It is estimated that 1.2 billion people worldwide are infected by *Ascaris lumbricoides*, 800 million by *Ancylostoma duodenale* and *Necator americanus*, and 700 million by *Trichuris trichiura* (Sengupta et al., 2011).

A significantly higher morbidity and mortality are observed in developing countries, particularly among children, where many communities still lack access to improved sanitation facilities

(Harhay et al., 2010; David et al., 2015). Acquisition of giardiasis occurs through a faecal-oral route, which can be person-to-person, foodborne, or through contaminated water (drinking water or during recreational activities), with the last being the most significant means of transmission of this infection (Ali and HBI, 2000; Hansen et al., 2012; Santos et al., 2013).

The prevalence of diseases caused by these parasites is even greater in developing countries and in rural areas, where there are substandard conditions of basic sanitation services. Thus, proper treatment of wastewater is part of the solution to this problem. However, the population of these countries has little technical knowledge and low financial resources (Paraskevov et al., 2002), which hinders the installation of sophisticated and expensive wastewater treatment systems.

Due to limited availability of resources in these regions, the technologies to be employed should be appropriate to the economy of these countries. They should be inexpensive and adaptable to structural and economic conditions of small towns and economically disadvantaged areas.

In response to this sanitary condition, the Brazilian government launched the Basic Sanitation Research Program (PROSAB). One of its primary objectives was the development of research for rural areas sanitation. Anaerobic filters filled with bamboo rings (Camargo and Nowe, 2000), coconut shells of *Cocos nucifera* (De Oliveira-Cruz et al., 2013; Tonon et al., 2015) or ceramic bricks (Burnichan, 2006) were among the researched reactors. Their

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