Health risks involved with drinking contaminated water

Waterborne diseases cause 1.4 million children’s deaths every year. Neighbors desiring access to improved sanitation.

Abstract
Due to a devastating earthquake in Haiti on January 12, 2010, casualties due to waterborne contaminants escalated. The purpose of this research is to educate the people of Haiti about the importance of sanitary water by presenting them with a means to chlorinate it. Pamphlets will also be distributed to educate the Haitian people about the importance of:

- Clean water and its health benefits
- Health risks involved with drinking contaminated water
- The need for clean water

Chlorination Bucket Distribution
- Provide families with a labeled chlorine bottle and a bucket containing a tap and lid for safe water storage
- Chlorine will be provided to each family for ten cents per month
- Proceeds from the chlorine sales will pay for three full-time and one part-time Community Health Technician

Oversight of Chlorination in Haiti
- Each community will have Community Health Technicians employed to oversee the program
- Technicians are trained to generate chlorine, teach families to use system properly, test for proper chlorine dosage, and ensure adequate hygiene of buckets
- Keeping records of chlorination bucket users and financial data are also duties of Technicians
- Refresher courses on proper chlorination usage will be held on a monthly basis

Chlorination Instructions
- Fill a five gallon storage bucket with water
- Add one capful of chlorine (two for muddy water)
- Stir and wait thirty minutes before drinking

Results/Outcomes
- Decrease occurrence of typhoid fever and cholera in Haiti
- Increase life expectancy and birth rate
- Create jobs within communities; promote local economy
- Reduce likelihood of diarrheal and other waterborne diseases

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Acknowledgments
We would like to thank the Jolivert Safe Water for Families (JSWF) organization for data regarding a previously successful effort in helping us develop our intended project.

References
- “Water, water, everywhere, And all the boards did shrink; Water, water, everywhere, Nor any drop to drink.” The Rime of the Ancient Mariner

Project Goals/Objectives
- Educate the people of Haiti about the importance of:
  - Clean water and its health benefits
  - Health risks involved with drinking contaminated water
- Offer Haitians a means to chlorinate their water through the use of a bucket chlorination system.

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We would like to thank the Jolivert Safe Water for Families (JSWF) organization for data regarding a previously successful project conducted in Haiti since September of 2002 to present day. Also, we thank Jill Rulfs and Helen Vassallo for their continuous effort in helping us develop our intended project.