

# Safe Water Certified Healthy Homes

## Diseases related to water

### Cholera

Symptoms: diarrhea, nausea, vomiting  
 50% of untreated cases lead to death  
 Transmission: Water/food contaminated with feces



### Guinea Worm

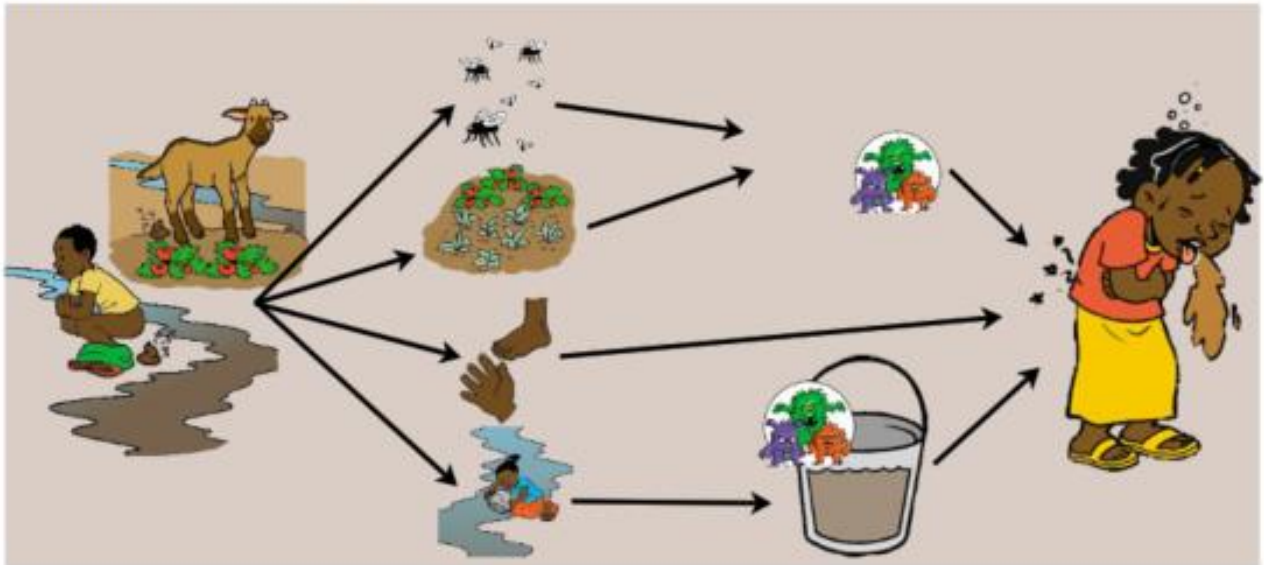
Symptoms: None at first. As worm leaves, pain in lower limb preventing walking or work for weeks  
 Transmission: Water contaminated by fleas



Other: schistosomiasis, shigellosis, typhoid, hookworm, tapeworms, cryptosporidiosis, E. Coli, diarrhea

Drinking water is not the only way water transmits diseases. Filtered water should also be used for bathing and washing clothes.

## Transmission Routes



## Barriers



Images and content in this document are adapted from materials prepared by CAWST (Center for Affordable Water and Sanitation Technology)

## The Biosand Filter - operation, use, and maintenance

### What happens to the germs and dirt?



Cicilia ide and son Manasseh  
 When my husband bought the filter, I was not happy. While the children are suffering from diarrhoea, you buy a stone instead of medicine. But today there is good improvement in our family towards water borne disease (cholera). Son Manasseh says "mama, the water is sweet."



### Parts of the biosand filter



### Cleaning the Biosand Filter - the Swirl and Dump



1. Fill up the reservoir with water.
2. Remove the diffuser.
3. Put your hand flat on the sand.
4. Swirl the sand around in a circle a few times.
5. Use a cup or small bucket to scoop out the dirty water from the top of the filter into your dirty water container.
6. Replace the diffuser. Repeat steps 1-5 as needed.
7. Dump the dirty water in a drain or the bushes.
8. Clean the lid and diffuser with clean soapy water.
9. Ensure the top of the sand is flat.
10. Wash your hands and reassemble the biofilter.

## Certified Healthy Home

Homes that own and maintain biofilters receive the Safe Water Certification. Their guests know that they can confidently drink this better tasting water. And the homeowners know that they are not subjecting their guests to the burden of water related illnesses.



## Financial Prosperity

Unsafe water eats a family's finances. If one person gets typhoid, that person will miss a week or two of work and the family needs to buy a needle or maybe pay for a funeral. Drinking the same unsafe water, that person or another family member will get sick again. Last year, 7 people in Betty's family had typhoid!

A woman in Lire had typhoid 3 times before buying a biofilter. She hasn't had typhoid since. **Biofilter water is 100 times less expensive than boiled water and 20,000 times less expensive than bottled water.**

