The Role of Effective WASH Support in Combatting Infectious Diseases

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Rod Beadle, Engineers in Action
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ROD BEADLE:

• BS Civil Engineering, UW Milwaukee
• MS, International Public Service, DePaul University
• Assistant Executive Director, Engineers in Action

• Developing World Work - Civil Engineer
  • Africa
  • Central Asia
  • South Asia
  • Caribbean
  • Central America
  • South America

• Disaster Response Work - WASH Specialist
  • Haiti Earthquake 2010
  • Pakistan Flooding 2010
  • Haiti Cholera Outbreak 2010
  • Horn of Africa Drought 2011
  • Sierra Leone Cholera Outbreak 2012
  • Philippines Typhoon Yolanda 2013
  • Liberia Ebola Outbreak 2014
DISEASES OF POVERTY

- Cholera
- Malaria
- Tuberculosis
- Typhoid
- Hepatitis
- Ebola
INFECTIOUS DISEASE TREATMENT

Remember the ...ATIONS!

- Segregation
- Isolation
- Chlorination
- Sanitation
- Hydration
- Education
SEPARATION AND ISOLATION

- Zones
  - Entrance/Screening
  - Observation/ORS
  - Neutral/Staff Areas
  - Hospital Wards
  - Recovery Area
  - Morgue
  - Waste Area
  - WASH Facilities

- Source MSF 2004
CHLORINATION

- Why chlorine?
- 0.2 to 0.5 ppm
  - Drinking water
  - ORS mixture
- 0.05% (500 ppm)
  - Handwashing stations
- 0.2% (2,000 ppm)
  - Bed spray
  - Foot spray or foot bath
  - Clothes washing
  - Floor cleaning
- 2% (20,000 ppm)
  - Excreta/vomit cleanup
  - Corpse disinfection
SANITATION
HYDRATION
EDUCATION
HAITI
CHOLERA
OUTBREAK
2010

CTC:
Cholera
Treatment
Center
HAITI
CHOLERA
OUTBREAK
2010
SIERRA LEONE
CHOLERA OUTBREAK 2012

CTU: Cholera Treatment Unit
SIERRA LEONE
CHOLERA
OUTBREAK
2012
SIERRA LEONE
CHOLERA OUTBREAK
2012
LIBERIA
EBOLA
OUTBREAK
2014

CCC: Community Care Center
LIBERIA
EBOLA
OUTBREAK
2014
LIBERIA
EBOLA
OUTBREAK
2014
THANKS!