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HIP HYGIENE IMPROVEMENT
PROJECT

Measuring Behavioral Outcomes When Promoting HWTS

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Organization of Presentation

- Background
- International community interests
- Guiding principles
- Who is a user?
- Options to measure use
- Unanswered questions



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Background

- HIP-organized a one-week e-conference
- Clean water has an impact on diarrheal disease, many diarrheal pathogens are waterborne
- Household treatment more effective than source treatment in preventing diarrheal disease (Classen et. al, 2006)
- Another option to safe water access than water systems?
- Different water treatment options: chlorination, filtration, boiling, solar disinfection



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Areas of Evaluation Interest

- System performance
- Water quality
- Coverage
- Behavioral outcomes
- Health impact
- Sustainability (economic/financial & behavioral)



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Guiding Principles

- Process of influence: behavioral determinants
- Capturing incremental change
- Valid, reliable, easy to use, practical measures: self reported, inferred, observed
- Measuring sustainability



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Who is an Adopter?

- Level of use: ever, current
- Level of compliance: partial vs. full, correct vs. incorrect
- Level of consistency: irregular vs. consistent





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Alternative Measures

- Volumes of sales
- Number of liters of water treated
- % of households practicing effective water management



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Effective Water Management: Treatment

- Presence of chlorine residual
- Presence of covered and functional ceramic filter in accessible spot with candle in place and water in lower container
- Presence of multiple SODIS bottle exposed to full sunlight and storage bottles
- Dedicated pot for boiling and utensil to retrieve it



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Effective Water Management: Storage

- Water storage vessel covered or closed with a solid cap or lid
- Water storage vessel with a narrow mouth and tap for removing water for container





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Yes, but

- Behavioral determinants?
- Operation and maintenance?
- Sustainability?
- Water quality?
- Boiling in the mix?