



# Using PuR in Diverse Emergency Situations

Andrew Trevett

*Cranfield*  
UNIVERSITY

Peter Lochery



# Ethiopia: Severe Malnutrition

- Years of consecutive drought
- 2004 estimated 7.2m people require emergency food aid
- Emergency CTC initiative for severely malnourished children
- Widespread contaminated surface water supplies
- PuR used as part of CTC package



# Ethiopia

- Outpatient clinics ideal for training & distribution of PuR
- PuR-treated water for entire family not just enrolled child
- Water quality (17 sources)
  - Turbidity from  $>500$  to  $<5$ NTU
  - Free Chlorine  $0.5\text{mg/l}$
- Evaluation results:
  - Carers use PuR correctly and without difficulty
  - Widely accepted by users, especially with turbid water
  - Faster recuperation



# Haiti: Hurricane Jeanne

- Struck Haiti September 2004
- In Gonaives 2,000 deaths, and 300,000 affected
- Floodwater 3 – 5 metres, families lived on house roofs
- Gonaives water supply severely damaged, drainage channels blocked with mud
- CARE 40 years in Gonaives, warehouse became central facility to relief effort



*Photo: USAID*



# Haiti

- 100,000 sachets PuR available in CARE warehouse 3 days after hurricane event
- Emergency water supply:
  - Initially bottled water
  - Then chlorinated borehole water to public standpipes
  - PuR not widely used
- Reasons why PuR not used:
  - Alternative sources
  - Security
  - Logistics
  - Lack of familiarity, packaging, & distrust



# Conclusions

Key Differences	Ethiopia	Haiti
Acceptance	<ul style="list-style-type: none"><li>• Perceived by users as medicine?</li><li>• Some agency concerns</li></ul>	<ul style="list-style-type: none"><li>• Rejected by relief agencies</li><li>• Relative inconvenience</li></ul>
Context	<ul style="list-style-type: none"><li>• Stable</li><li>• Slow onset</li><li>• Usual water source</li></ul>	<ul style="list-style-type: none"><li>• Complex</li><li>• Rapid onset</li><li>• Alternative sources</li></ul>
Follow-up	<ul style="list-style-type: none"><li>• Weekly clinics</li><li>• Health volunteers</li><li>• MOH hand-over</li></ul>	<ul style="list-style-type: none"><li>• Impractical</li></ul>
Priority	<ul style="list-style-type: none"><li>• Child health</li></ul>	<ul style="list-style-type: none"><li>• Food?</li><li>• Shelter?</li></ul>



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