

# Infection Prevention During a Water Outage

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# Conflict of Interest Statement:

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The author certifies that he has no real or perceived conflicts of interest that relate to this presentation.

# Overview:

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- Holzer notified of water outage impacting the city of Gallipolis June 2, 2014 at 8:30 am
  - Holzer immediately converts to water storage tank use, and turns off supply line from city
- Boil water advisory issued at June 2, 2014 at 11:33 and water is considered unsafe for consumption (non-potable)

# Day 1:

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- Water conservation efforts are announced
  - Poor compliance
  - Severity of issue not fully realized
  - Incident command team not yet formed
  - Communication between local, regional and state entities inconsistent
    - Potable versus non-potable water and it's uses

## Day 2:

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- Holzer Gallipolis water supply tank at low levels for continued hospital boiler operation on June 3, 2014 at 7:30 am
- Decision made to contact Fire Departments to transport water (shock process)
  - Initially the local health department approved the transported water for all use (potable)
  - Ohio Department of Health rescinded approval and stated all water transported by Fire Department was non-potable

# Water Statistics

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7 Fire Departments

4 evenings of shuttling

1839 miles driven

427,150 gallons shuttled



KEEP BACK 500ft.

DI 911

TEXAS

FIRE/RESCUE





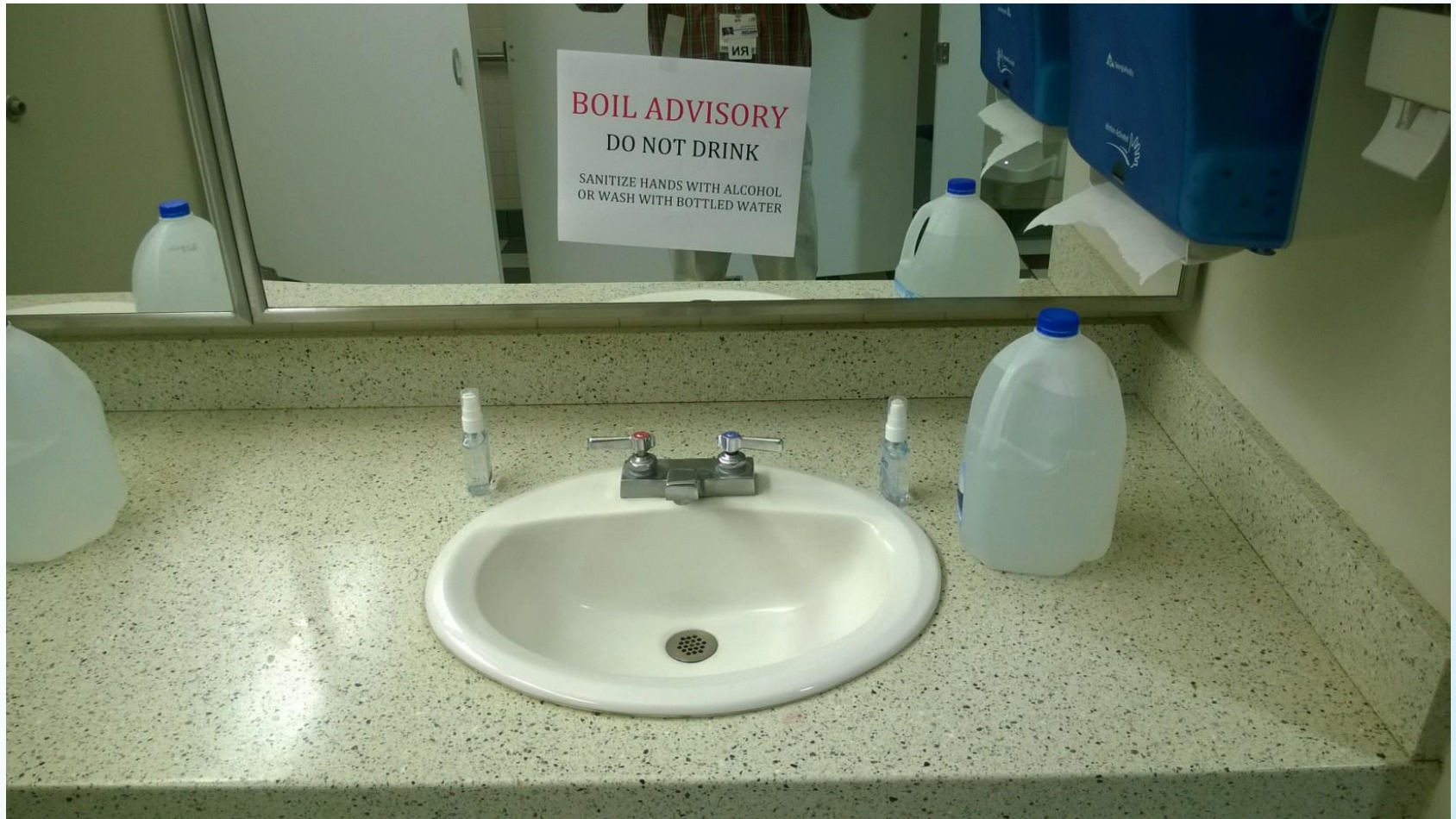


# The Problem:

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- Non-potable water was added to our closed system: how to safely continue operations???
- Hand Hygiene
- Bathing
- Surgical Cases
- Decontamination/Sterilization
- Drinking Water
- Environmental cleaning

# Hand Hygiene:



# Bathing:



**COMFORT**  
COMFORT  
**Bath**  
PREMOISTENED RINSE-FREE  
CLEANSING WASHCLOTHS

The Ultimate Full-Body Hygiene Bath

- Provides instant relief from itching & discomfort
- Soothes dry, irritated, & inflamed skin
- Healthy skin with natural moisture & oils
- Can be used for everyday bathing & travel

SEGE

NO SOAP RUBBING

**Skin Check**  
Observe and communicate skin condition

aloe & vitamin E

**Prepackaged Bathing**

Comfort Bath® premoistened, rinse-free washcloths deliver one-step, hygienic cleansing

*Eliminate basins—a CAUTI risk factor for bathing*

# Surgical Cases:

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Initially all cases were completed using sterile product

- Not viable for long term use
- Any non-emergent case were rescheduled to an alternate system Operating Room (OR)
- Gallipolis OR team on call with 2 sets of instruments available for emergent cases

# Decontamination/Sterilization

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Centers for Disease Control (CDC) states non-potable water unsafe for use in decontamination/sterilization.

- All contaminated instruments transported to alternate sites for processing.
- Efforts coordinated so a minimum of one back up set was always at the Gallipolis site for an emergent case.

# Drinking Water

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Bottled water proved to all patients and staff. Some issues that arose:

- Distribution
- Supply
- Theft
- Requests from employees for family members/friends/community



# Environmental Cleaning:

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# What we learned:

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- Initiate the IC process early
- Communicate constantly
- Involve front line staff
  - They better understand the challenges and have great input/feedback!
- Don't be afraid to ask for help
- Have a copy of this document!!!
  - <http://www.cdc.gov/healthywater/pdf/emergency/emergency-water-supply-planning-guide.pdf>

# What we learned:

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- Better Understanding of Water Shuttle Capabilities
- Investigation and Coordination of dual sources of water.

# Outcomes:

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Coordination of services resulted in:

- Minimal impact on overall operations.
  - Being a healthcare system enabled us to continue to provide care to our community
- Zero increase in Healthcare Associated Infections
  - Increased monitoring for 90 days post event

# Questions?

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