



Public Health is Public Safety

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Mission Statement



To **Protect**, promote and improve the health of all people in Florida...





Florida Examples

- “Largest TB outbreak in the country”
- Local wells contaminated by pesticide
- Use of Incident Command Structure
- Multidrug Resistant Organisms
- Medical Reserve Corps
- Prescription Drug Monitoring Database
- New ASPR Healthcare Coalitions
- Outbreak Opportunities



Tuberculosis Cluster

- 2012: Year of TB in Florida:
 1. Detection of PCR00160 genotype TB in homeless population of Duval County
 2. Closure of AG Holley state TB hospital after 62 years of operation
 3. Florida launches new System of TB Care to reduce TB rate by 50% by 2020



TB Cluster

- CDC Epi-Aid assistance 2012:
 - 225 PCR00160 cases nationally
 - 88 in Florida
 - 70 in Duval County homeless population

“Largest TB outbreak in the country”



TB Cluster

- Four months of Risk Communication:
 - Core message was to **protect** Duval Co. residents and keep community **safe**
 - Provided weekly, statewide TB media calls
 - Provided in-person interviews to media
 - Reached out to local/state elected officials
 - Conducted monthly community meetings



TB Cluster

- Risk Communication Strategies, cont'd:
 - Conducted Surgeon General's Symposium on Crisis and Risk Communications in Public Health
 - Vince Covello provided risk communication training for all health officers



Pesticide Contamination

Private Drinking Well Testing 2011

- Sample collected from resident's private well indicated that dieldrin level exceeded the Florida Health Advisory Level (HAL).
- Additional sampling of private wells was conducted following the protocol from the Department of Health's Well Surveillance Program Technical Guide



DeLand Country Club Estates Update



Summary of 2011 Testing Results

287 wells sampled:

- 171 wells had no detection for dieldrin.
- 116 wells tested positive.



DeLand Country Club Estates Update



Dieldrin Sampling 287 Samples 171 No Detects 116 Positives

Updated 1/5/2012





Dieldrin

- “For low-cost, long-lasting, dependable KILL of public health pests,” from a Shell Chemical Corporation 1958 advertisement
- Organochlorine (Toxaphene, DDT, Chlordane)
- More effective than DDT
- Often used as a termiticide in Florida
- Often used on golf courses in Florida.



Health Implications

- As in the case of drinking water, exposure to pesticides in soil over a 70 year lifetime might result in health effects.
- Because of typical hand-to-mouth behavior, the risk of incidental ingestion is greater for children. Hand washing is very important after playing in the yard, especially before eating.



Protective Measures for Private Drinking Water Wells

- If your private well is contaminated, connect to public water system.
- If your private well had no contamination, have your well periodically tested.



Protective Measures for Soil

- To limit exposure to termiticide or pesticide previously used on property, avoid activities that bring chemicals to the surface such as digging.
- Normal activities in a grass-covered yard should pose very little risk of exposure.



Public Use of ICS

- Under command of the State Surgeon General, an incident command system was stood up for:
 - TB cluster in Duval County 2012
 - Steroid meningitis in Marion County 2013
 - Syphilis in Broward County 2013
 - Dengue Fever in Martin County 2013

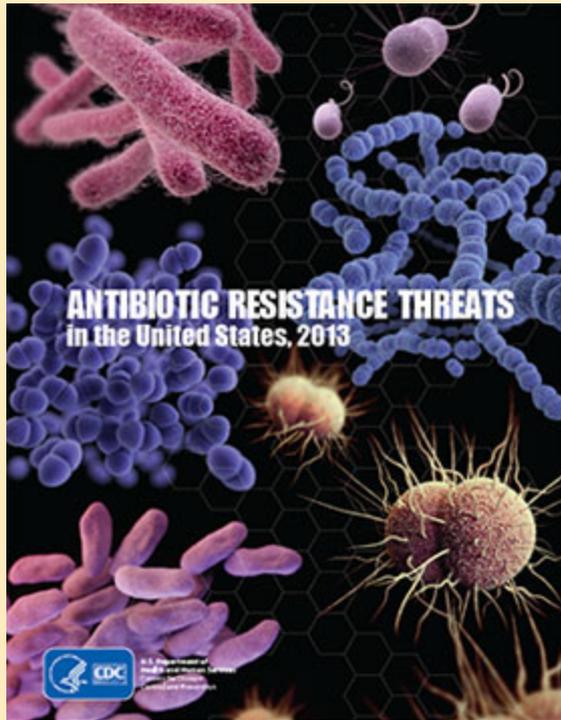


ICS Impact

- Florida DOH:
 - Public health is in control
- Media:
 - Public health in action protecting community
- Affected community:
 - Public health in action keeping us safe
- Deployed employees:
 - We are public health in action



Threat Report 2013



- 2 mil infected/23,000 die
- 18 microbes ranked according to threat level:
 - Important
 - Concerning
 - Urgent
- Urgent:
 - Carbapenem-resistant enterobacteriaceae CRE
 - C. difficile
 - Gonorrhea



Threat Report 2013

- Tom Frieden:
- “CDC works 24/7 to save lives and protect people, and part of that includes sounding the alarm about health threats, before they get out of control.”
- Four part solution:
 1. Prevent infections (immunization, food safety, wash hands)
 2. Track resistant infections-surveillance
 3. Antibiotic stewardship
 4. Develop new drugs

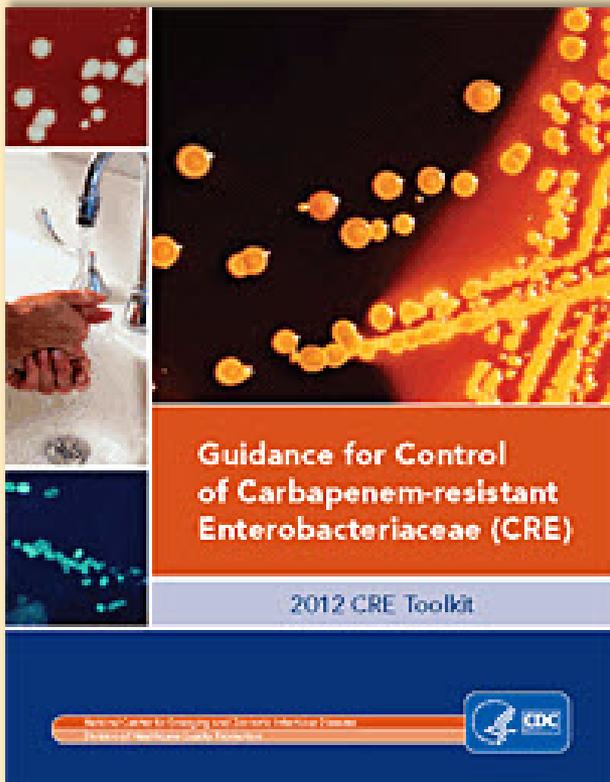


Healthcare Associated Infections

- Enterobacteriaceae
 - Gram negative rods
 - E.coli, Klebsiella, Proteus and Citrobacter
- Carbapenem resistant enterobacteriaceae
 - Resistance to drugs of last resort
 - Rare before 2000
 - 4.6% of acute care hospitals, high mortality
 - Most CRE are healthcare-associated



CDC CRE Toolkit



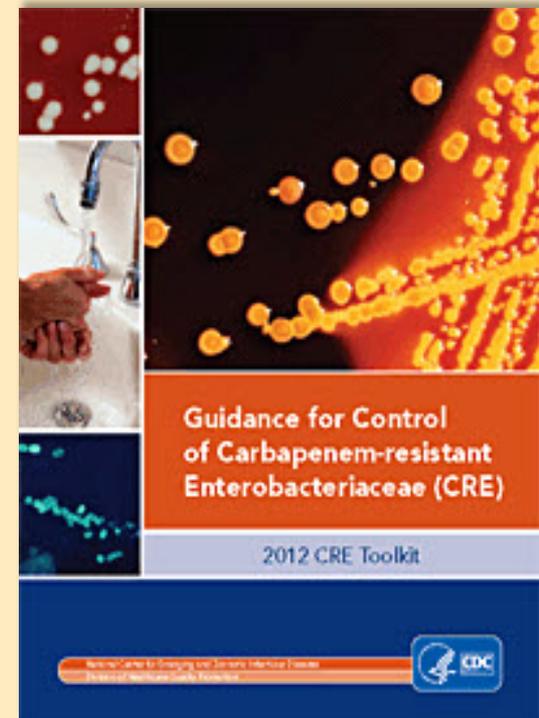
- Updates and expands 2009 guidance
- Provides recommendations for
 - Facilities
 - Regions
 - States



Detect and Protect

States can:

- Know CRE in region
- Track cases regionally
- Alert receiving facilities
- Increase lab capacity
- Teach CRE prevention
- Be proactive





Local Public Health Role

- Epidemiologic analysis:
 - Hospital→ambulance→long term care
 - Person-to-person transmission
 - Lapses in basic infection control
 - hand-washing/gloves/gowns
 - contaminated surfaces/equipment
 - family member adherence to PPE
 - Antibiotic stewardship



Prescription Drug Monitoring

(Toby Talbot/Associated Press)



LA Times: “The proactive analysis of such databases is viewed by public health experts as key to curbing the toll of prescription drugs.”

Disaster Ready

- Medical Reserve Corps
- Project PH Ready

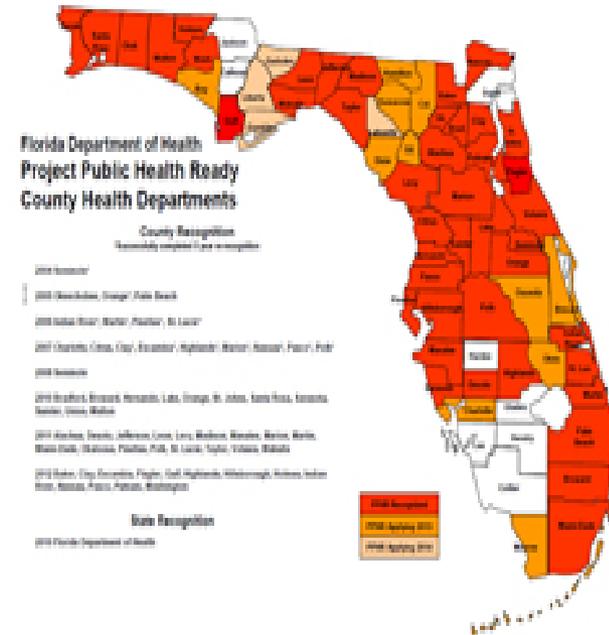


Figure: Map of PPHR recognized County Health Departments in Florida

NHPP

- Funding Purpose –
 - Provide resources that support state, local, territorial and tribal public health departments and healthcare systems/organizations *in demonstrating measurable and sustainable progress toward achieving public health and healthcare emergency preparedness capabilities that promote prepared and resilient communities.*
 - Models FEMA Whole Communities approach.

FEMA's Whole Community Approach

- A Whole Community Approach to Emergency Management (December, 2011)

<http://www.fema.gov/library/viewRecord.do?id=4941>



A Whole Community Approach to
Emergency Management: Principles,
Themes, and Pathways for Action

FDOC 104-008-1 / December 2011



FEMA

ALL Disasters Start & End Locally!

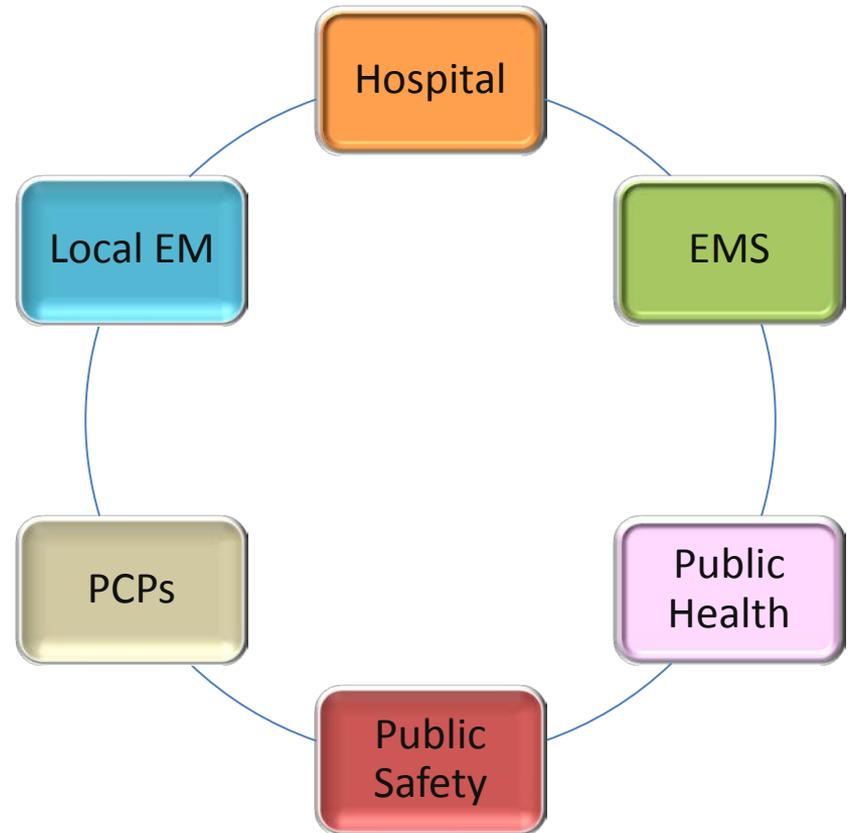


Healthcare Preparedness Program

Old Way



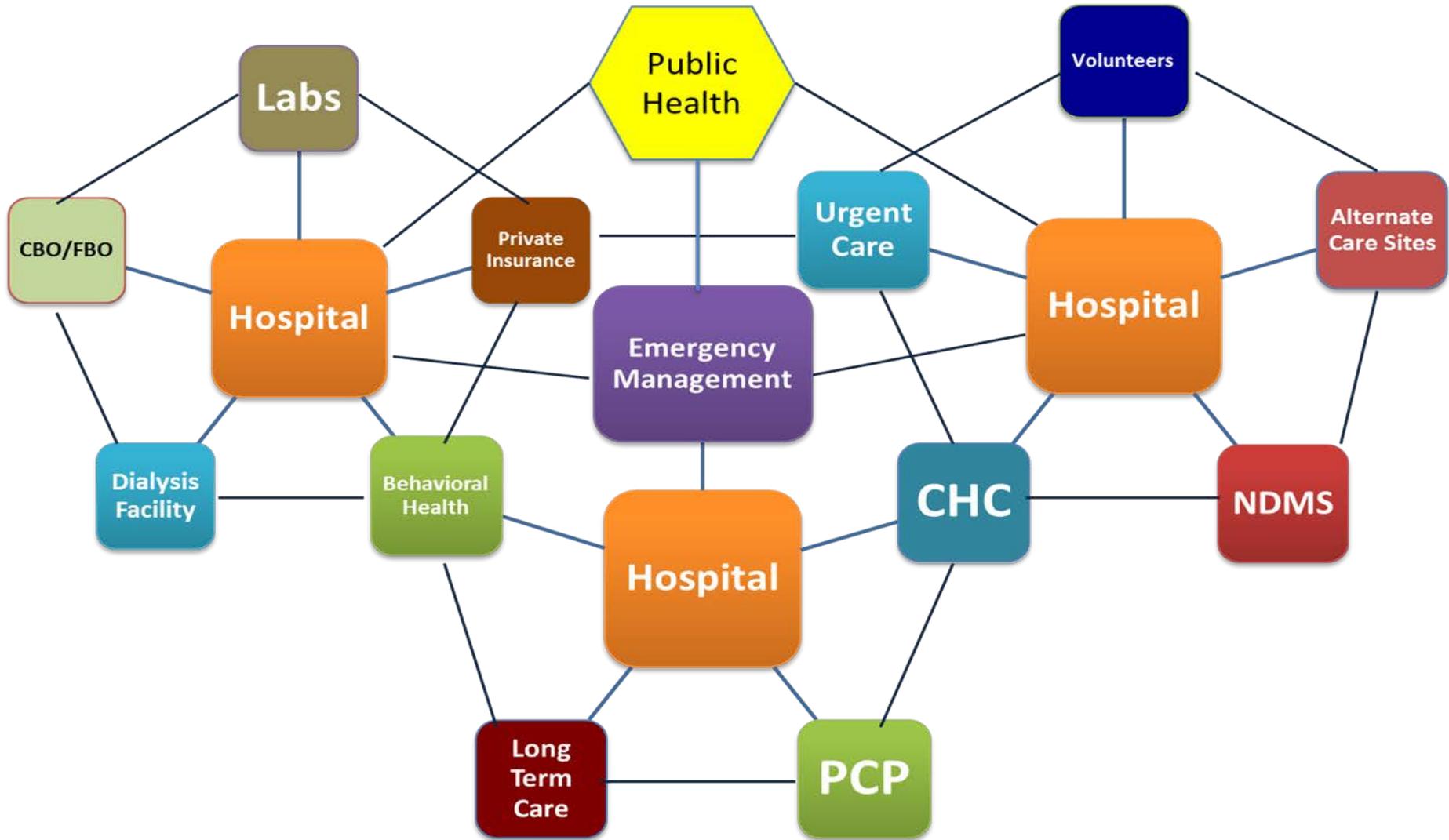
New Way



Definition of HCC

- A collaborative network of healthcare organizations and their respective public and private sector response partners which serve as a multi-agency coordinating group.
- Coalitions assist Emergency Management through ESF-8 with preparedness, response, recovery, and mitigation activities related to healthcare organization disaster operations.

Another View...





Initial HCC Tasks

- Develop HCC infrastructure;
- Determine risk;
- Perform resource assessments and gap analysis;
- Identify and prioritize healthcare assets and essential services;
- Coordinate emergency preparedness activities for the coalition;



Initial HCC Tasks

- Develop operational support plans in coordination with Emergency Management and ESF8;
- Identify gaps in training and coordinate training to address those gaps;
- Exercise risk based objectives; and,
- Demonstrate performance.



HCC-Specific Capabilities

1. Healthcare System Preparedness
2. Healthcare System Recovery
3. Emergency Operations Coordination
4. Fatality Management
5. Information Sharing
6. Medical Surge
7. Responder Safety and Health
8. Volunteer Management



**SHOW
ME THE
MONEY!**



LHD release goes national

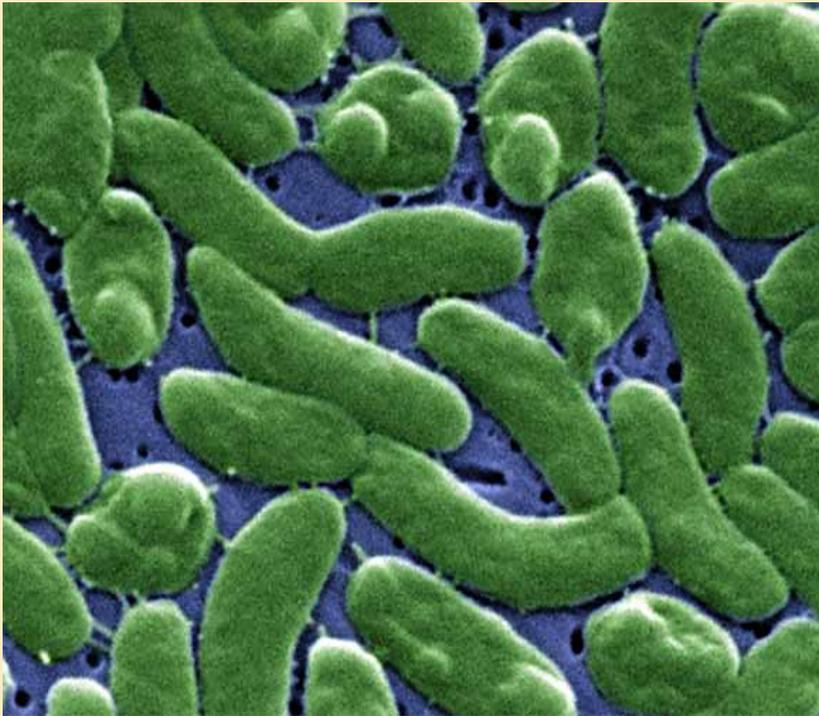
- (Safeoysters.org)



- USA Today: “Rare ‘flesh-eating’ bacteria in seawater kill 35 a year”
- ~40% ingested improperly cooked shellfish
- ~60% exposed skin lesion to warm marine water



Vibrio Vulnificus



- Vibrio concentrations:
 - 100-1000 cells/ml water
 - 10,000 cells/gm sediment
 - 100,000 cells/gm oyster meat
- Highest risk:
 - Immune compromise
 - Liver disease



California Epi/FDA

Salmonella Outbreak



- “This outbreak shows that it is a terrible time for government public health officials to be locked out of the offices and labs, and for government websites to go dark.” Center for Science in the Public Interest



Questions?

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