

All response begins at the local level. Being prepared to prevent, respond to, and recover from all types of public health threats requires that states and localities improve their capabilities in surveillance, epidemiology, laboratories, and response readiness. Facts on laboratories and response readiness activities appear below. See appendices 1 and 7 for a more detailed description of data points and data sources.

A healthy population is more resilient in public health emergencies. People with chronic conditions may require additional care such as specialized medications, equipment, and other assistance. To develop an effective response plan, a state or locality must consider the unique needs of its own population. In Michigan, 9.9% of adults reported having asthma, 9.1% diabetes, 6.7% heart disease, and 3.0% had a stroke. In addition, 22.6% reported a limiting disability and 64.7% were overweight or obese.\* \*CDC, ONCDIEH (NCCDPHP) Behavioral Risk Factor Surveillance System, 2008

Laboratories: General				
Status of continuity of operations plan (COOP):¹ State public health laboratory had a COOP that was tested				
State had a standardized electronic data system capable of messaging laboratory results between LRN laboratories and also to CDC <sup>2</sup> Note: For a description of LRN laboratories, see appendix 1.	Yes			
atories: Biological Capabiliti	es			
LRN reference and/or national laboratories that could test for biological agents <sup>3</sup>	9 reference labs			
LRN laboratories successfully contacted during a non- business hours telephone drill <sup>3</sup>	9 out of 9 labs			
Proficiency tests passed by LRN reference and/or national laboratories <sup>3</sup>	9 out of 9 tests			
Rapidly identified <i>E. coli</i> 0157:H7 using advanced DNA tests (PFGE) <sup>4</sup> • Samples for which state performed tests • Test results submitted to PulseNet database within 4 working days (target: 90%)	95 95%			
Rapidly identified L. monocytogenes using advanced DNA tests (PFGE) <sup>4</sup> • Samples for which state performed tests • Test results submitted to PulseNet database within 4 working days (target: 90%)	14 100%			
State public health laboratory conducted exercises to assess competency of sentinel laboratories to rule out bioterrorism agents <sup>1</sup>	Yes			
CDC-funded LRN laboratory ability to contact the CDC Emergency Operations Center within 2 hours during LRN notification drill <sup>3</sup> Note: There is one CDC-funded LRN laboratory in DC and in each state, with the exception of CA, IL, and NY, which have two.	Passed			
	Status of continuity of operations State public health laboratory I that was tested  State had a standardized electronic data system capable of messaging laboratory results between LRN laboratories and also to CDC²  Note: For a description of LRN laboratories, see appendix 1.  atories: Biological Capabiliti  LRN reference and/or national laboratories that could test for biological agents³  LRN laboratories successfully contacted during a non- business hours telephone drill³  Proficiency tests passed by LRN reference and/or national laboratories³  Rapidly identified E. coli O157:H7 using advanced DNA tests (PFGE)³  Samples for which state performed tests  Test results submitted to PulseNet database within 4 working days (target: 90%)  Rapidly identified L. monocytogenes using advanced DNA tests (PFGE)⁴  Samples for which state performed tests  Test results submitted to PulseNet database within 4 working days (target: 90%)  State public health laboratory conducted exercises to assess competency of sentinel laboratories to rule out bioterrorism agents¹  CDC-funded LRN laboratory ability to contact the CDC Emergency Operations Center within 2 hours during LRN notification drill³  Note: There is one CDC- funded LRN laboratory in DC and in each state, with the exception of CA, IL, and NY,			

Laboratories: Chemical Capabilities				
Participation in Laboratory Response Network for chemical agents (LRN-C)	LRN-C laboratories with capabilities for responding if the public is exposed to chemical agents <sup>5</sup> Note: There are three levels, with Level 1 having the most advanced capabilities. See appendix 1.	One Level 1 lab		
Evaluating LRN-C laboratory capabilities through proficiency testing	Core methods successfully demonstrated by Level 1 and/or Level 2 laboratories to rapidly detect chemical agents <sup>5</sup>	6 out of 6 methods		
	Additional methods successfully demonstrated by Level 1 and/or Level 2 laboratories to rapidly detect chemical agents <sup>5</sup>	4 out of 4 methods		
Assessing LRN-C laboratory capabilities through exercises	LRN-C laboratory ability to collect, package, and ship samples properly during LRN exercise⁵	Passed		
	Chemical agents detected by Level 1 and/or Level 2 laboratories in unknown samples during the LRN Emergency Response Pop Proficiency Test (PopPT) Exercise <sup>6</sup>	2 out of 2 agents		
	Hours to process and report on 500 samples by Level 1 laboratory during the LRN Surge Capacity Exercise (range was 71 to 126 hours) <sup>5</sup>	75 hours		
Respor	se Readiness: Communicat	ion		
Communicating emerging health information	State public health department had a 24/7 reporting capacity system that could receive urgent disease reports any time of the day <sup>7</sup>	Yes		
	Responded to Health Alert Network (HAN) test message within 30 minutes <sup>8</sup>	Yes		
	State public health laboratory used HAN or other rapid method (blast email or fax) to communicate with sentinel laboratories and other partners for outbreaks, routine updates, training events, and other applications <sup>1</sup>	73 times		
	Epidemic Information Exchange users responded to system-wide notification test within 3 hours <sup>9</sup> CDC, ONDIEH (NCEH); 2008 <sup>7</sup> State data; 2	52%		

1APHL; 2008 2CDC, OSELS; 2008 3CDC, OID (NCEZID); 2008 4CDC, OPHPR (DSLR); 2008 5CDC, ONDIEH (NCEH); 2009 6CDC, ONDIEH (NCEH); 2008 7State data; 2008 CDC, OPHPR (DEO); 2009 CDC, OPHPR (DEO); 2008

Response Readiness: Communication (continued)				
Improving public health information exchange	Participated in a Public Health Information Network forum (community of practice) to leverage best practices for information exchange <sup>10</sup>	Yes		
R	esponse Readiness: Planning			
	CDC technical assistance review (TAR) state score 11,12	2007-08: 95		
Assessing plans to receive, distribute, and dispense medical assets from the Strategic National Stockpile and other sources	Scoring Note: A score of 69 or higher indicates performance in an acceptable range in plans to receive, distribute, and dispense medical assets.	2008-09: 100		
	Cities Readiness Initiative (CRI) location and 2007-08 TAR score <sup>11</sup>			
	*Cohort I: Detroit, MI: 78 *Cohort II: No sites *Cohort III: No sites			
	See Scoring Note above. CRI locations can consist of multiple jurisdictions, some located in more than one state. See appendix 6.			
	*Cohort I, II or III refers to the year when the location was added to CRI. See appendix 1.			
Enhancing response capability for chemical events	CHEMPACK nerve-agent antidote containers <sup>11</sup>	67		
Meeting preparedness standards for local health departments	Local health departments meeting voluntary Project Public Health Ready preparedness standards <sup>13</sup>	1		

Response Readiness: Exercises and Incidents				
Notifying emergency operations center staff	Pre-identified staff notified to fill all eight Incident Command System core functional roles due to a drill, exercise, or real incident 14 Note: State must report 2 and could report up to 12 notifications.	4 times		
	Pre-identified staff acknowledged notification within the target time of 60 minutes <sup>14</sup>	4 out of 4 times		
	Conducted at least one unannounced notification outside of normal business hours <sup>14</sup>	Yes		
Activating the emergency operations center (EOC)	Public health EOC activated as part of a drill, exercise, or real incident <sup>14</sup> Note: State must report 2 and could report up to 12 activations.	4 times		
	Pre-identified staff reported to the public health EOC within the target time of 2.5 hours <sup>14</sup>	4 out of 4 times		
	Conducted at least one unannounced activation 14	Yes		
R	esponse Readiness: Evaluation			
Assessing response capabilities through after action report/ improvement plans (AAR/IPs)	AAR/IPs developed following an exercise or real incident <sup>14</sup> Note: State must report 2 and could report up to 12 AAR/IPs.	4 AAR/IPs		
	AAR/IPs developed within target time of 60 days <sup>14</sup>	2 out of 4 AAR/IPs		
	Re-evaluated response capabilities following approval and completion of corrective actions identified in AAR/IPs <sup>14</sup>	Yes		

<sup>&</sup>lt;sup>10</sup>CDC, OSTLTS; 2008 <sup>11</sup>CDC, OPHPR (DSNS); 2008 <sup>12</sup>CDC, OPHPR (DSNS); 2009 <sup>13</sup>NACCHO; 2008 <sup>14</sup>CDC, OPHPR (DSLR); 2008

In addition to the activities listed above, CDC supported other projects and activities to enhance preparedness efforts.

Research, Training, Education, and Promising Demonstration Projects				
Project	Location/Project Name	Amount		
Centers for Public Health Preparedness <sup>15</sup>	University of Michigan - Center for Public Health Preparedness	\$525,760		
Preparedness and Emergency Response Research Centers <sup>15</sup>	_	N/A		
Advanced Practice Centers <sup>16</sup>	_	N/A		
Centers of Excellence in Public Health Informatics17	_	N/A		
Pandemic Influenza Promising Practices Demonstration Projects <sup>14</sup>	Collaborative Planning for Delivery of Essential Healthcare Services; Countermeasure and State Immunization Information Systems Integration; Electronic Death Reporting	\$997,324 \$300,000 \$741,124		
Additional CDC Resources Supporting Preparedness in States and Localities				
<ul> <li>Epidemic Intelligence Service</li> <li>Epidemic Intelligence Service Field Officers<sup>17</sup></li> <li>Investigations conducted by Epidemic Intelligence Service Field Officers<sup>17</sup></li> </ul>	1 7			
Deployments  Type of Incident (number of CDC staff) <sup>18</sup>	Measles Exposure (1)			
Career Epidemiology Field Officers <sup>15</sup>	_			
Quarantine Stations <sup>19</sup>	Detroit Metro Airport, Detroit			

<sup>14</sup>CDC, OPHPR (DSLR); 2008 15CDC, OPHPR (OD); 2008 16NACCHO; 2008 17CDC, OSELS; 2008 18CDC, OPHPR (DEO); 2008 19CDC, OID (NCEZID); 2008