

CONTROL AND PREVENTION

SAFER • HEALTHIER • PEOPLE™

The Future







The Futures Initiative: Achieving Health Impact







Why Change Now?

- Aging population
- Emerging global infectious diseases
- Obesity
- Development of public health workforce and infrastructure
- Health disparities













CDC's Strategic Imperatives

- 1. *Health impact focus:* Align CDC's people, strategies, goals, investments & performance to maximize our impact on people's health & safety.
- *2. Customer-centricity:* Market what people want & need to choose health.
- *3. Public health research:* Create & disseminate the knowledge & innovations people need to protect their health now & in the future.
- 4. Leadership: Leverage our unique expertise, partnerships, & networks to improve the health system.
- *5. Global health impact:* Extend our knowledge & tools to promote health protection around the world.
- *6. Accountability: S*ustain people's trust & confidence by making the most efficient & effective use of their investments in us.





What are CDC's Goals?

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Healthy People in Every Stage of Life - All people, and especially those at greater risk of health disparities, will achieve their optimal lifespan with the best possible quality of health in every stage of life.

- **"Start Strong":** Increase the number of infants and toddlers that have a strong start for healthy and safe lives. (Infants and Toddlers, ages 0-3 years).
- "Grow Safe and Strong": Increase the number of children who grow up healthy, safe, and ready to learn. (Children, ages 4-11 years).
- "Achieve Healthy Independence": Increase the number of adolescents who are prepared to be healthy, safe, independent, and productive members of society. (Adolescents, ages 12-19 years).
- "Live a Healthy, Productive, and Satisfying Life": Increase the number of adults who are healthy and able to participate fully in life activities and enter their later years with optimum health. (Adults)
- "Live, Better, Longer": Increase the number of older adults who live longer, high-quality, productive, and independent lives. (Older Adults)





Healthy People in Healthy Places: The places where people live, work, learn, and play will protect and promote their health and safety.

- "Healthy Communities": Increase the number of communities that protect, and promote health and safety and prevent illness and injury in all their members
- "Healthy Homes": Protect and promote health through safe and healthy home environments.
- "Healthy Schools": Increase the number of schools that protect and promote the development, health, and safety of all students and staff.
- "Healthy Workplaces": Promote and protect the health and safety of people who work by preventing workplace-related fatalities, illnesses, injuries, and personal health risks.
- "Healthy Healthcare Settings": Increase the number of healthcare settings that provide safe, effective, and satisfying patient care.
- "Healthy Institutions": Increase the number of institutions that provide safe, healthy, and equitable environments for their residents, clients or inmates.
- "Healthy Travel and Recreation": Ensure that environments enhance health and prevent illness and injury during travel and recreation.





Global Health: Healthy People in a Healthy World

- "Health Promotion": Global health will improve by sharing knowledge, tools, and other resources with people and partners around the world
- "Health Protection": Americans at home and abroad will be protected from health threats through a transnational prevention, detection and response network
 - "Health Diplomacy": CDC and the United States Government will be a trusted and effective resource for health development and health protection around the globe.





Preparedness: People in all communities will be protected from infectious, occupational, environmental, and terrorist threats.

Pre-event		Event	Post-event
1)	Increase the use and development of interventions known to prevent human illness from chemical, biological, radiological agents and naturally occurring health threats.	5) Decrease the time to identify causes, risk factors, and appropriate interventions for those affected by threats to the public's health.	7) Decrease the time needed to restore health services and environmental safety to pre-event levels.
2)	Decrease the time needed to classify health events as terrorism or naturally occurring in partnership with other agencies	6) Decrease the time needed to provide countermeasures and health guidance to those affected by threats to the public's health	8) Increase the long-term follow-up provided to those affected by threats to the public's health.
3)	Decrease the time needed to detect chemical, biological, radiological agents in tissue, food or environmental sample that cause threats to the public's health.	Round One Scenarios: Influenza anthrax plague emerging infections 	9) Decrease the time needed to implement recommendations from after-action reports following threats to the public's health.
4)	Improve the timeliness and accuracy of information regarding threats to the public's health	 toxic čhemical exposure radiation exposure 	



For more information about the goals: <u>www.cdc.gov/about/goals</u>

To provide comments and/or input go to <u>cdcgoals@cdc.gov</u>

We appreciate your interest and input.







A non-profit association dedicated to working with members to actively promote the interests of public health laboratories. APHL plans, coordinates and integrates global expertise of members to help promote improvement in laboratory practice worldwide.

Vision: A healthier world through quality laboratory practice

Mission: To promote the role of public health laboratories in support of national and global objectives, and to promote policies and programs that assure continuous improvement in the quality of laboratory practice.





APHL/CDC Cooperative Agreement







The Old Paradigm

 A loose association of public health (state, county and city), hospital, and independent laboratories throughout the country.







Characteristics of Paradigms

- Definition from "Paradigms" by Joel Barker "A paradigm is a set of rules and regulations (written or unwritten) that does two things:
 (1) it establishes or defines boundaries; and
 (2) it tells you how to behave inside the boundaries in order to be successful."
- Risk of "Paradigm Paralysis"





Banda Aceh, Indonesia



Hurricane Katrina

Pandemic Influenza Avian Influenza

Public Health Grand Rounds Disease, Disaster and Detection

Leveraging What Works

MINNESOTA LABORATORY SYSTEM A PUBLIC AND PRIVATE COLLABORATION

- Surveying Clinical Labs
- Establishing linkages
- Education
- Proficiency Testing

Educational Tools

Educational Tools

Evaluation of the Process Required to Expand the NLS to All States

CDC Evaluation Using a Contract with Battelle Memorial Institute

Robert Martin, DrPH Eunice Rosner, EdD

Method – Formative Evaluation

 Case studies of NLS demonstration sites
 Survey of State Public Health Laboratory Directors (SPHLDs)

 Survey of a sample of clinical laboratories (CL)

Questions

- What practices were employed by the demonstration sites?
- How interested are SPHLDs and clinical laboratory managers in collaborating?
- What is the clinical laboratory's perception of SPHLs?
 - Demo vs non-demonstration sites differ?
- Do background and activities of the SPHL affect CL perceptions of the state lab and/or their interest in working together?

Today's Focus: Survey of Clinical Laboratory Directors/Managers

Sampling Frame

Clinical Laboratories that perform "comprehensive microbiology"

- National Laboratory Data Base
- Microbiology PT advanced
- Population 3,991
- Sample 738 laboratories, randomly stratified to include all states

Responses

Final number of usable surveys - 503

 519/727 responded (71%)*
 16 were eliminated by self-identification as HMO, or other ineligible status

* 11 public health labs were removed from data analysis

Public Health-Related Activities Reported*

- 93% Notify SPHL or state EPI of results of potential health threats
- 71% Hold briefings for staff about PH threats*
- 60% Have someone on staff responsible for PH matters*
- 66% Notify physicians about PH threats**
- 25% Participate in CDC/SPHL program such as Foodnet, Els programs

* Number of responses varies from 465 - 492
** More likely if CL director/supervisor has some PH background (p<.005).

Reasons CL Does Not Consult with SPHL 61% - Inability to quickly locate a point of contact 44% - Different hours of operation 19% - Not an appropriate source for some information 13% - Lack of confidence in SPHL expertise 10% - Concern about regulatory intervention - Concern about interference 8% in testing methods

Availability of and Satisfaction with SPHL Contacts

97% - Always or frequently available and responds in a timely manner (N=336)

 90% - Responses are good to excellent (N=391) Factors that would increase reliance on the SPHL as a course of information.

- 85% Better understanding of the SPHL's capabilities and roles (N=445)
- 75% Better understanding of our laboratory's role in PH (N=413)

 67% – Expanded service of SPHL (N= 373)

48% – Improved responsiveness of SPHL to our inquiries (N= 361)

Expected Benefits of Increased Interaction

- 90% Being part of a laboratory network or community (N=417)
- 89% Additional resource about PH issues (N=435)
- 84% Better information about new tests and procedures (N=432)
- 78% Better access to new tests and procedures (N=422)

New State Activities

Information Technology

- Connecticut
- Iowa
- Nebraska
- Rhode Island

Communication

- Arkansas
- North Dakota
- Michigan

Environmental Issues

- Minnesota
- Wisconsin

Lessons Learned – Michigan Integration Program

Clinical laboratory added or modified an existing procedure due to state laboratory intervention

	Added N (%)	Changed N (%)
GBS Screening of pregnant women	7 (9%)	20 (26%)
GBS AST	9 (12%)	8 (11%)
Vancomycin screening agar for VRSA	45 (59%)	21 (28%)
D-zone test for inducible clindamycin resistance in Staphylococcus	29 (38%)	12 (16%)
Diseases/isolate/test results that are reportable to the state health department	17 (22%)	15 (19%)

Laboratory Outreach Communication System

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Need for LOCS

To address gaps in laboratory-related communication with the broad clinical community

LOCS Project Statement

To build a volunteer communications infrastructure for the exchange of laboratory-related information between CDC and others in the laboratory community

Initial Program

Provide up-to-date information in a dynamic or urgent public health situation

Updates

Audience

- Public health, clinical, physician office, independent laboratory staff
- Timing
 - Scheduled and unscheduled
- Route of communication
 - Teleconference, web conference
 - Mailing lists, email, phone/ FAX

Topics

- Needs of laboratorians that are not being met
- Emergent issues, changes in regulations, standards, recommended practices, disaster relief

The Future is Bright

