

INTEGRATED CONSORTIUM OF LABORATORY NETWORKS



The Integrated Consortium of Laboratory Networks is sponsored by the Department of Homeland Security

Joint Leadership Council
DHS OHA Chair

More than 450 distinct labs represented in member response networks



Stakeholder Members

DOJ/FBI
DOE
DOS
DOI

Network Coordinating Group
DHS OHA Chair

Executive Secretary
DHS OHA

Subgroups

- Scenario/Threat Prioritization
- Methods/Detection Technology
- Proficiency Testing/Quality Assurance
- Training
- Radiological Laboratory Response
- Sample Prioritization
- Laboratory Logistics



MISSION: The mission of the Integrated Consortium of Laboratory Networks (ICLN) is to coordinate federally sponsored analytical laboratory services for chemical, biological, radiological, and nuclear (CBRN) incidents. The ICLN does this through planning, identifying resources, providing laboratory surge capacity support, and defining key process steps for information exchange and data sharing during an incident. During CBRN incidents, the ICLN provides timely, credible, and interpretable data in support of surveillance, early detection, and effective consequence management.

ICLN Exercises



Previous ICLN Tabletop (TTX) and Interagency Exercises:

- Tabletop Exercises (TTXs):**
- B. anthracis (December, 2008)
 - Melamine in macaroni product (December, 2008)
 - HSN1 exercise (2009)
 - B. anthracis inhalation (IBRD, July 2010)
 - B. anthracis inhalation (October, 2010)
 - C. botulinum in food (October, 2010)
 - Sodium fluoroacetate in food (October, 2010)
 - Foot and Mouth Disease (March 2011)
 - Rathybacter Toxicus (September 2011)
 - Rad TTX: 3 RDD (Denver, Chicago, Los Angeles) using Strontium-90 and Plutonium-238 (February, 2012)
 - Chemical-in-Milk/ChemR2 (August, 2012)
 - Foot and Mouth Disease in Milk (May, 2013)
 - Radiological INB (July, 2013)
 - Anthrax Validation Exercise (April, 2014)
 - Cyclosporin Tabletop Exercise (September, 2014)
 - Nuclear Power Plant Tabletop Exercise (June, 2015)
 - Sodium Fluoroacetate Tabletop Exercise (December, 2015)
- Interagency Exercises:**
- Northern Lights (October, 2016)

Network Name	Primary Network Focus
DLN: DoD Laboratory Network; Agency: DoD	Human clinical, animal (e.g., zoonotic surveillance), vector-borne (e.g., mosquito and tick surveillance), environmental, and food matrices of the military
ERLN: Environmental Response Laboratory Network; Agency: EPA	Environmental matrices
FERN: Food Emergency Response Network; Agencies: HHS/FDA and USDA/FSIS	Food consumed by humans and animal feeds
LRN: Laboratory Response Network; Agencies: HHS/CDC	Clinical specimens as well as environmental, water, and food samples
NAHLN: National Animal Health Laboratory Network; Agency: USDA	Animal clinical/live animals in the field
NPDN: National Plant Diagnostic Network; Agency: USDA	Plants/crops in the field
Vet-LIRN: Veterinary Laboratory Investigation & Response Network; Agencies: HHS/FDA	Regulatory compliance and safety of animal feeds and veterinary drugs by testing animal diagnostic samples

Two Major Coordinating Elements of the ICLN:

- 1. STRATEGIC LEVEL:** Joint Leadership Council (JLC) is made up of one senior policy member from each Department or Agency participating in the ICLN.
 - The JLC is charged with “assuring an appropriate strategy is in place to support an effective all-hazard laboratory response capability.”
- 2. OPERATIONAL LEVEL:** Network Coordinating Group (NCG) is composed of senior technical and program representatives.
 - The NCG is charged with “promoting enhanced commonality and integration of network functions.”
 - There are presently seven networks within the NCG: DLN, CDC LRN, ERLN, FERN, NAHLN, NPDN, and Vet-LIRN.

Combined Registry

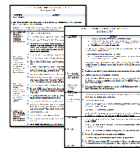
A password-protected database that houses the Methods Registry, network proficiency testing data and schedules, and the training calendar.



The Combined Registry is a multi-function application and available through the ICLN Portal. It provides the ICLN community the ability to securely access and share Methods, Proficiency Testing, Training information, and schedules.

Standard Operating Procedure/ Key Process Steps Checklist

Provides guidance on how to request assistance for capacity/capacity support from fellow networks; describes the processes/procedures to communicate about ongoing incidents/events; simplifies data reporting between network program offices; and assists with returning resources back to their home network.



OPERATIONAL STEPS OF THE ICLN

- ICLN Activated**
 - Network member recognizes there may be a need for collaboration
 - Incident is created on the ICLN Portal.
 - Communication is sent to all NCG members.
- Initial SITREP**
 - A SITREP is issued when a potential or evolving situation has been confirmed as a valid incident via a positive analytical result.
- ICLN Coordination Teleconference**
 - Details of the incident, including current laboratory capacity and capability, are discussed. Resources may be requested to help respond to the incident.
- SITREP Updates & Data Exchange**
 - SITREPs are updated as new information becomes available.
 - Analytical data results are uploaded to the ICLN Data Exchange Utility.
- ICLN Deactivated**
 - Resources no longer needed are returned to their home network.
 - Final SITREP issued to close out incident.

—This process may vary slightly from incident to incident.—

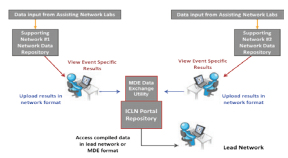
ICLN Tools

Portal
A secure, password-protected web portal that can be used by member networks on a day-to-day basis as well as during an incident.



Data Exchange Utility

A secure online system that supports the exchange of laboratory results data in an agreed-upon standardized ICLN format, available through the ICLN Portal.



- Converts from native network formats to common MDE* format
- >10K record upload in <10 minutes
- 400K records searchable <4 minutes with 8 concurrent users

*MDE = Minimum Data Elements. A format developed by the Methods and IT subgroups comprising some of the member networks at various points associated with various

IN SUMMARY:

The ICLN delivers a coordinated consortium of networks that are:

- Aligned with national, departmental, and agency guidance, policies, and response mechanisms.
- Poised to deal with high consequence, low probability events by leveraging existing laboratory resource capability and capacity.

The ICLN provides an operational, cost-effective contribution to national security.

CONTACT INFORMATION

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