

The Public Health Laboratory System Database (PHLSD)

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LABORATORY
EFFICIENCIES
INITIATIVE

Transforming to a Sustainable Public Health Laboratory System



PHLSD Background

- A need for a tool to gather and organize information
- LEI-Data subcommittee and contractor created a database
- Modeled after the CDC Infectious Diseases Laboratory Database
- A tool for each PHL to manage and control their own capacity data
- Several months of meetings, calls and beta testing

Purpose

- PHL to manage personnel, CLIA requirements, test and instrument information
- Information to meet APHL survey and CDC data requests
- Create a nationwide test service directory

Features

- Exportable Data
- Customized Reports
- Data Summaries
- Aggregated Data Access

Reports

- Run reports and queries:
 - CLIA personnel and tests
 - Tests by test type, method, volume
 - Equipment type
- Each PHL will update and maintain own database

Implementation

- Database built in Access software
 - PHL need to have Access 2007 or higher
 - Microsoft Windows Vista 7 or 8
- Database distributed via SharePoint
- Request to complete database and send to APHL
- Ability to continuously update your database
- Annual nationwide summary
- Merge data into the SRC

Support

- Instructions for use
- Training videos
- FAQs
- APHL staff support
- APHL data release policy

PHLSD

5 Data Tabs

- Main Data
- Personnel Data
- Regulatory Data
- Testing Data
 - Clinical and Environmental
- Equipment Data

Reports

- CLIA personnel and tests
- Tests by test type, method, volume
- Equipment type

Main Data Tab

Testing Data Entry Form
Save & Close

Name of Laboratory State

Lab Classification If Other, specify

Record Last Edit Date: 5/14/2014 2:48:18 PM

Record Last Edited by: deborah.kim

Export to

Export to csv

Main Data
*Hover over text for additional help

Updates & Certificates

Person Responsible for Updates CLIA #

Leadership Structure

Last Name	First Name	Phone	Email	Position	Program Description
Smith	Joe	(222) 222-1111	Smith.joe@yahoo.com	Director	Laboratory
* <input type="button" value="Add"/>					

Record: 1 of 1

Regulatory & Quality Systems

What regulatory programs is your laboratory subject to and what other accreditation programs does your laboratory participate in?

<input type="checkbox"/> AIHA	<input type="checkbox"/> APHIS	<input type="checkbox"/> CAP	<input type="checkbox"/> CMS	<input checked="" type="checkbox"/> EPA	<input type="checkbox"/> ISO15189	<input type="checkbox"/> NIST/NVLAP	<input checked="" type="checkbox"/> Select Agent	<input type="checkbox"/> Tier I	<input type="checkbox"/> USDA
<input type="checkbox"/> A2LA	<input type="checkbox"/> ASCLD	<input checked="" type="checkbox"/> CLIA	<input type="checkbox"/> ELLAP	<input type="checkbox"/> FDA	<input type="checkbox"/> ISO17025	<input type="checkbox"/> PHAB	<input type="checkbox"/> SFT	<input type="checkbox"/> TNI	<input type="checkbox"/> Other

Quality Manager(s)

Personnel License Required

LIMS Vendor

Location Data

<p>Street Address <input type="text" value="1234 Somewhere in IA"/></p> <p>City <input type="text" value="Iowa City"/> State <input type="text" value="IA"/> Zip <input type="text" value="11111"/></p>	<p>Complete Mailing Address <input type="text"/></p>	<p>Number of BSL₃ Labs <input type="text" value="3"/></p> <p><input checked="" type="checkbox"/> Training Lab # Training Seats <input type="text" value="20"/></p>
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Personnel Data Tab

Testing Data Entry Form Save & Close

Name of Laboratory: State: Record Last Edit Date: 5/14/2014 2:48:18 PM Export to

Lab Classification: If Other, specify: Record Last Edited by: deborah.kim Report Export to csv

Main Data Personnel Data Regulatory Data Testing Data Equipment

Personnel Data - questions below are regarding staff that work in laboratories

Number of filled FTE & Staff positions


Table 1			Last Updated:
Staff	FTE	# of Staff	5/14/2014 2:47:08 PM
*Laboratory staff (bench & supervisory)	50.00	0.00	
*Laboratory support staff (admin & clerical, not IT)	5.00	0.00	
*Laboratory IT staff	0.00	0.00	
Filled Staff TOTALS	55.00	0.00	

Education levels for all filled laboratory and support staff positions

Table 3		Last Updated:
Highest Degree Attained	# of Staff	5/14/2014 2:47:29 PM
Doctoral	0.00	
Master's	0.00	
Bachelor's	0.00	
Associate's	0.00	
High School Diploma	0.00	
Fellows/Interns/Externs	0.00	
Other	0.00	
Education TOTALS	0.00	

Number of vacant FTE & Staff positions

Table 2			Last Updated:
Staff	FTE	# of Staff	5/14/2014 2:47:29 PM
*Laboratory staff (bench & supervisory)	1.00	0.00	
*Support staff for laboratory (admin & clerical, not IT)	2.00	0.00	
*Laboratory IT staff	0.00	0.00	
Vacant Staff TOTALS	3.00	0.00	



APHL ASSOCIATION OF
PUBLIC HEALTH LABORATORIES

Regulatory Data Tab

Testing Data Entry Form
Save & Close

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Main Data | Personnel Data | **Regulatory Data** | Testing Data | Equipment

*Hover over text for additional help

Personnel

Lab Director

Last	First	Phone	Email	Area of Responsibility	Certificate	# of CLIA Labs Responsible for
▶ Smith	Joe	(111) 111-1111	smith.joe@yahoo.com	Lab		1
* <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Clinical Consultant

Last	First	Phone	Email	Area of Responsibility	*Qualifications
▶ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Technical Supervisor

Last	First	Phone	Email	Area of Responsibility	*Qualifications
▶ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

General Supervisor

Last	First	Phone	Email	Area of Responsibility	*Qualifications
▶ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Testing Personnel

Last	First	Phone	Email	Area of Responsibility	*Qualifications
▶ <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

CLIA Proficiency Testing or Alternative Proficiency Test

Provider	Program(s)
▶ <input type="text"/>	<input type="text"/>

Test Volume

Test examples: a cluster of assays that provides a phenotypic identification; a susceptibility test (e.g., MIC or disk diffusion); typing of an organism (e.g., serological or by PFGE); nucleic acid sequencing for identification of an organism.

How many non-CLIA *tests are performed in a 12 month period?

How many CLIA *tests are performed in a 12 month period?

Audits & Inspections

Date of Last Inspection

CLIA	<input type="text" value="1/6/2014"/>
EPA	<input type="text" value="4/7/2014"/>
ISO 15189	<input type="text"/>
ISO 17025	<input type="text"/>
TNI	<input type="text"/>
AIHA	<input type="text"/>
Other	<input type="text"/>

Testing Data Tab

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Export to

Report

Main Data **Personnel Data** Regulatory Data **Testing Data** Equipment
*Hover over text for additional help

Testing Selection

Clinical

This section allows you to append multiple tests to your "Testing Performed" List. You may choose to filter by Test or Method first. Please fill in data fields 1-8. In field 4 you must select the items you would like pasted. Select the applicable additional details for the specific methods in field 5. Once you have completed your entry click the "Populate" button to append those tests to the "Testing Performed" Section. After populating, additional modifications can be made to the data fields under the "Testing Performed" section (particularly Details and 12 Month Test Volume).

[View Clinical Test List](#)

Selection Option to Filter by Test then Method Method then Test

1. Category	2. MethodClass	3. Test	4. Method
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5. Lab Section	6. POC Last	7. POC First	8. Test Volume Reporting Date
<input type="text"/>	Smith	Joe	5/14/2014

Testing Performed

What ID tests are offered by the Lab (internally or externally)? Do not include research tests.

	Category	MethodClass	Test	Method	Details	*12 Month Test Vol	Lab Section	POC Last
<input type="checkbox"/>	Bacteriology-AST	Antimicrobial Susceptibility Te	Amoxicillin-Clavulanic A	AST-Kirby Bauer	<input type="text" value=""/>	200		Smith
<input type="checkbox"/>	Bacteriology-Biothreat	Culture	Bacillus anthracis	Culture	<input type="text" value=""/>	150		Smith
<input checked="" type="checkbox"/>	Bacteriology-Brucella	Serology	Brucella spp	Agglutination	<input type="text" value=""/>	5		Smith

Record: 3 of 3 Search

Equipment Data Tab

Testing Data Entry Form
Save & Close

Name of Laboratory State

Lab Classification If Other, specify

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Main Data
Personnel Data
Regulatory Data
Testing Data
Equipment

*Hover over text for additional help

Equipment List

Automated or specialized test related equipment not to include common support equipment such as centrifuges and incubators

	Instrument Type	Manufacturer	Model	Year of Purchase	Location	Number of Instruments	*LIMS Integration	Comment	Service Contract	Date of Expiration
▶	Automated Detection/Identification	Abbott	M2000rt	2001			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
*							<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	

Feedback

- “I wish I had this tool during last year’s hepatitis outbreak so I could easily know who to contact for assistance. A national test database would allow us to view methods and equipment utilized by other public health laboratories across the nation. This feature will be quite beneficial in surge events as contact information will also be included in the database.”

-Dr. Christine Bean, Laboratory Director, New Hampshire Division of Public Health Services, Department of Health and Human Services

Feedback

- “It was critical that Iowa could use the APHL Survey Resource Center (SRC) to find other state laboratories that could provide surge testing services for parasitology. The PHLSD management database will be an even greater improvement by allowing us to immediately identify states that provide the specific microscopy tests for Cyclospora and their testing capacity.”

-Bonnie Rubin, Assoc. Director for Administrative Service, State Hygienic Laboratory at the University of Iowa

Helpful Hints

- Download it on a shared drive
- Check the clinical and environmental tests your laboratory conducts against the Excel list from the database
- Allow several people to complete sections of the database
- Cut and paste information from LIMS to database

Next Steps

- Immediate steps
 - Webinar
 - Mentoring
 - Pre-populating test data fields
- Future steps
 - QC data
 - Create and distribute national test service directory
 - Link test list to LOINC/SNOMED codes