

Print Date: 4/15/22

Title: NCEH DLS	S Laboratory Quality Assurance Programs
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Project Id: 0900f3eb81e1b52e

Accession #: NCEH-DLSPB-9/30/21-dfba9

Project Contact: Linde J Parcels

Organization: NCEH/ATSDR/DLS/DLSPB

Status: Pending Regulatory Clearance

Intended Use: Project Determination

Estimated Start Date: 10/01/2021

Estimated Completion Date: 10/01/2024

CDC/ATSDR HRPO/IRB Protocol #:

OMB Control #:

Source System #: 2021-0086

Determinations

Determination	Justification	Completed	Entered By & Role
HSC: Does NOT Require HRPO Review	Not Research / Other 45 CFR 46.102(1) Quality Assurance / Improvement	11/16/21	Davis_Stephanie I. (sgd8) CIO HSC

Description & Funding

Description

Priority: Standard

Date Needed: 11/30/2021

Determination Start Date: 11/16/21

The CDC DLS QA programs operate out of multiple laboratories within the Division. They establish the baseline measurements and provide calibration and/or QC samples that laboratories around the world rely on to develop and improve methods with acceptable levels of accuracy and reliability and, in some cases, meet certain required certifications or accreditation. Laboratories use DLS-developed samples to test the quality and accuracy of their methods/assays. Participating laboratories enroll in the DLS QA program that fits their needs (I.e.: external quality assurance/performance assessment, proficiency testing, accuracy-based monitoring, or standardization/harmonization). After the laboratories receive DLS QA samples and perform their measurements, they return test results to DLS. DLS then evaluates the data using statistical methods and reports back to the laboratories on their analytical performance. Laboratories may receive additional technical assistance (TA)/troubleshooting to improve their method performance as needed. DLS programs are offered at different frequencies.

IMS/CIO/Epi-Aid/Lab-Aid/Chemical Exposure

Submission:

Description:

No

IMS Activation Name: Not selected

Primary Priority of the Project: Not selected

Secondary Priority(s) of the Project: Not selected

Task Force Associated with the Response: Not selected

CIO Emergency Response Name: Not selected

Epi-Aid Name: Not selected

Lab-Aid Name: Not selected

Assessment of Chemical Exposure Name: Not selected

Accuracy and reliability of laboratory tests is important to identify and to monitor exposures and health biomarkers, which in turn improves diagnosis and treatment. Laboratories that conduct biomonitoring or test for certain environmental or nutritional chemicals participate in quality assurance (QA) activities for many reasons: to assess internal test performance, calibrate methods to standards among other laboratories, receive certification of proficiency to comply with certain regulations, or simply improve quality. Participation may help a laboratory to verify the accuracy of their methods and results or ensure accurate and consistent test results

across multiple laboratories.

Collectively, these programs improve the quality of laboratory tests that measure environmental exposures and chronic disease

Goals/Purpose

Objective:

biomarkers (including nutritional indicators and hormones) to better inform critical patient care and public health decisions for an expansive host of health outcomes such as rare heritable disorders in newborns, endocrine disorders, maternal health and risk of birth defects, bone, kidney and cardiovascular disease, cancers (including breast cancer), diabetes, thyroid and hormone dysregulation.

Does this project include interventions, services, or policy change work aimed at improving the health of groups who have been excluded or marginalized and /or decreasing disparities?:

r No of nd

Project does not incorporate elements of health equity science:

Yes

Measuring Disparities:

Not Selected

Studying Social Determinants of Health (SDOH):

Not Selected

Assessing Impact:

Not Selected

Methods to Improve Health Equity Research and

Not Selected

Practice:

Other:

Not Selected

Activities or Tasks:

All Work Onsite at CDC Facilities

Target Populations to be Included/Represented:

Other - Not Applicable

Tags/Keywords:

DLS 2021-0086

CDC's Role:

CDC is the sole institution conducting activity

clinical laboratories more comparable.

Method Categories:

QA/QI

test result analysis to laboratories for the purpose of improving and/or standardizing test performance. # Clinical Chemistry Branch (5): Lipid Standardization Program (LSP) for Clinical Biomarkers; Cholesterol Reference Method Laboratory Network (CRMLN); Accuracy-based Laboratory Monitoring Programs (AMP); Hormone Standardization (HoST) Program; Vitamin D Standardization Certification Program (VDSCP) # Nutrition Biomarkers Branch (3): Vitamin A Laboratory # External Quality Assurance (VITAL-EQA); Quality Assurance Method Performance Verification (MPV) for Folate Microbiologic Assay; Quality Assurance Method Performance Verification (MPV) for Micronutrients # Organic Analytical Toxicology Branch (1): Biomonitoring Quality Assurance Support Program (BQASP) # Inorganic Radiation and Analytical Toxicology Branch (3): Proficiency in Arsenic Speciation (PAsS) Program; Ensuring the Quality of Urinary Iodine Procedures (EQUIP); Lead and Multielement Proficiency (LAMP) Testing Program # Newborn Screening and Molecular Biology Branch (1): Newborn Screening and Quality Assurance Program (NSQAP) All thirteen (13) CDC quality assurance programs help improve the accuracy and reliability of tests performed by laboratories in patient care, research, commercial and public health settings. They also help to make measurement results among research studies and among

There are thirteen (13) DLS QA programs conducted by the following five DLS branches. These programs provide materials and

Methods:

Data will be collected electronically via email and online forms; data reporting forms are returned to DLS via Excel templates, PDFs, or web platforms. Laboratories that participate in the various programs are domestic and international and can include public health

Collection of Info, Data or Biospecimen:

laboratories, research laboratories, commercial laboratories, and diagnostic test manufacturers. They can be associated with medical schools, hospital systems, state health departments, universities/academic institutions, ministries of health, nonprofit organizations.

Expected Use of Findings/Results and their impact:

Collectively, these programs improve the quality of laboratory tests that measure environmental exposures and chronic disease biomarkers (including nutritional indicators and hormones) to better inform critical patient care and public health decisions for an expansive host of health outcomes such as rare heritable disorders in newborns, endocrine disorders, maternal health and risk of birth defects, bone, kidney and cardiovascular disease, cancers (including breast cancer), diabetes, thyroid and hormone dysregulation.

Could Individuals potentially be identified based on Information Collected?

No

Funding

Funding Type	Type Funding Title		Original Budget Yr	# Years Award	Budget Amount	
CDC Funding Intramural	Project Funding and Partners				1762845.00	

HSC	Review	
HS(:	ROMOW	

HSC Attributes

Quality Assurance / Improvement

Yes

Regulation and Policy

Do you anticipate this project will be submitted to the IRB office

No

Estimated number of study participants

Population - Children Protocol Page #:

Population - Minors Protocol Page #:

Population - Prisoners Protocol Page #:

Population - Pregnant Women Protocol Page #:

Population - Emancipated Minors Protocol Page #:

Suggested level of risk to subjects

Do you anticipate this project will be exempt research or non-exempt research

Requested consent process waviers

Informed consent for adults No Selection

Children capable of providing assent No Selection

Parental permission No Selection

Alteration of authorization under HIPPA Privacy No Selection

Rule

Requested Waivers of Documentation of Informed Consent

Informed consent for adults No Selection

Children capable of providing assent No Selection

Parental permission No Selection

Consent process shown in an understandable language

Reading level has been estimated No Selection

Comprehension tool is provided No Selection

Short form is provided No Selection

Translation planned or performed No Selection

Certified translation / translator No Selection

Translation and back-translation to/from target

language(s)

No Selection

Other method No Selection

Clinical Trial

Involves human participants

Assigned to an intervention

Evaluate the effect of the intervention

No Selection

No Selection

No Selection

No Selection

Registerable clinical trial

No Selection

Other Considerations

Exception is requested to PHS informing those bested about HIV serostatus

Human genetic testing is planned now or in the future

Involves long-term storage of identifiable biological specimens

Involves a drug, biologic, or device

Conducted under an Investigational New Drug

No Selection

Institutions & Staff

exemption or Investigational Device Exemption

Institutions

Institutions yet to be added

Staff

Staff Member	SIQT Exp. Date	CITI Biomedical Exp. Date	CITI Social & Behavioral Exp. Date	CITI Good Clinical Practice Exp. Date	Staff Role	Email	Phone	Organization
Linde Parcels	09/13/2024				Project Officer		404-498- 5892	DLS POLICY BRANCH
Yan Ding	03/01/2024	07/02/2024			Project Officer		770-488- 7934	DIVISION OF LABORATORY SCIENCES

Data

DMP

Proposed Data Collection Start Date: 9/30/21

Proposed Data Collection End Date: 9/30/24

Proposed Public Access Level: Non-Public

Non-Public Details:

Reason For Not Releasing Data: Other - QA/QC

Public Access Justification: QA/QC

How Access Will Be Provided for Data: Project data is not public health data

Plans for Archival and Long Term Preservation:

Spatiality

Spatiality (Geographic Locations) yet to be added

Dataset

	Dataset	Dataset	Data Publisher	Public Access	Public Access	External	Download	Type of Data	Collection	Collection End
	Title	Description	/Owner	Level	Justification	Access URL	URL	Released	Start Date	Date
Dataset yet to be added										



U.S. Department of Health and Human Services

Centers for Disease Control and Prevention