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|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|--------------------|
| <br><small>CENTERS FOR DISEASE<br/>CONTROL AND PREVENTION</small> | <b>DDID / NCHHSTP / Division of Viral Hepatitis / Laboratory Branch</b> |                                  |                    |
| <b>DVH Laboratory Branch</b>                                                                                                                     |                                                                         |                                  |                    |
| <b>Outbreak and Surveillance Sample Submission</b>                                                                                               |                                                                         |                                  |                    |
| <b>Doc. No.</b> CDC-012-00297                                                                                                                    | <b>Rev. No.</b> 01                                                      | <b>Effective Date:</b> 20APR2023 | <b>Page</b> 1 of 5 |

## 1.0 Purpose

- 1.1 This procedure provides instructions on how to ship non-clinical (non-CLIA) specimens collected as part of hepatitis outbreak and surveillance activities to the Division of Viral Hepatitis (DVH) Laboratory Branch for Global Hepatitis Outbreak and Surveillance Technology (GHOST) testing.

## 2.0 Scope

- 2.1.1 This procedure applies to senders of samples from local public health laboratories, state public health laboratories, healthcare facilities, and other federal agencies for analysis.

## 3.0 Definitions

| Term                                      | Definition                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DVH                                       | Division of Viral Hepatitis                                                                                                                                                                                                                                                                                   |
| GHOST                                     | Global Hepatitis Outbreak and Surveillance Technology used for genetic testing of specimens from Hepatitis A, Hepatitis B, and Hepatitis C outbreaks and surveillance                                                                                                                                         |
| Personally identifiable information (PII) | Patient name, date of birth, medical identification record, or any other information that can link the patient to the sample submitted to CDC                                                                                                                                                                 |
| Form 50.34                                | Form Required for submission of outbreak and surveillance specimens to CDC - DVH <b>without any personally identifiable information (PII)</b> <a href="#">Specimen Submission Form</a>   <a href="#">Submitting Specimens to CDC</a>   <a href="#">Infectious Diseases Laboratories</a>   <a href="#">CDC</a> |
| GFAT                                      | Global File Accessioning Template for submission of outbreak and surveillance specimens to CDC - DVH <b>without any personally identifiable information (PII)</b> . This form can be provided by the Laboratory Point of Contact upon request.                                                                |
| CSTOR                                     | CDC Specimen Test Order and Reporting Web Portal - <a href="#">Specimen Submission Form</a>   <a href="#">Submitting Specimens to CDC</a>   <a href="#">Infectious Diseases Laboratories</a>   <a href="#">CDC</a>                                                                                            |
| CDC Test Directory                        | <a href="#">Test Directory</a>   <a href="#">Submitting Specimens to CDC</a>   <a href="#">Infectious Diseases Laboratories</a>   <a href="#">CDC</a>                                                                                                                                                         |

|                                                                                                                                                  |                                                                         |                                  |                    |
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#### 4.0 Responsibility

| Position           | Responsibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External Submitter | <ul style="list-style-type: none"> <li>Email <a href="mailto:hepatitislabrequest@cdc.gov">hepatitislabrequest@cdc.gov</a> to request viral hepatitis laboratory testing. Please include diagnosis, summary of clinical and epidemiological data about the patient in the email request to enable DVH staff to evaluate the appropriateness of laboratory testing for the public health investigation. Wait to receive approval from DVH laboratory staff via <a href="mailto:hepatitislabrequest@cdc.gov">hepatitislabrequest@cdc.gov</a> prior to submitting specimens.</li> <li>Follow procedures for proper storage and shipment of specimens according to CDC Test Directory Instructions for Test Order CDC-10531: <a href="#">Test Order   Submitting Specimens to CDC   Infectious Diseases Laboratories   CDC</a></li> <li>Complete and submit CDC Specimen Submission Form 50.34 (for biological specimens), or GFAT, or through CSTOR for each clinical specimen submitted to CDC with <b>NO PII</b> information.</li> <li>Include a copy of 50.34 or GFAT with shipment<br/><b><u>NOTE:</u></b><br/><b><u>Specimens submitted with personally identifiable information (PII) in the accompanying 50.34 form or GFAT will be rejected as outlined in section 5.1. Only specimen ID and demographic information outlined in 5.1.3.2 and 5.1.3.3 is required</u></b></li> </ul> |
| DVH Epi Staff      | <ul style="list-style-type: none"> <li>Provides epidemiological consultation to the submitter, and if appropriate, refers the investigation for laboratory evaluation.</li> <li>Any additional follow-up after test reports are shared with the specimen submitter</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DVH LB Staff       | <ul style="list-style-type: none"> <li>Provide shipping guidelines to submitters</li> <li>Provide customer support for specimen shipment (as needed)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| <b>DVH Laboratory Branch</b>                                                                                                                     |                                                                         |                                  |                    |
| <b>Outbreak and Surveillance Sample Submission</b>                                                                                               |                                                                         |                                  |                    |
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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>• Update the instructions for specimen shipment as needed to meet regulatory criteria, and notify the external submitters of any changes</li> <li>• Determine final approval of specimens received to be accepted or rejected based on criteria detailed in section 5.1 and 5.2</li> <li>• Reject specimens that do not meet shipment criteria outlined in the CDC Test Directory CDC-10531 and notify the submitter of the reason for rejection of specimens</li> <li>• If appropriate, approves the investigation for laboratory evaluation and assigns an investigation code of the accepted specimen. Shares the approval and investigation code with DVH Epi and the submitter.</li> <li>• Assign CDC specimen ID to accepted specimens, accessions and dispatches specimens submitted for NGS testing</li> <li>• Test results disseminated to submitter, DVH Epi copied in the communication</li> </ul> |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5.0 Specimen Submission Procedure

### 5.1 Specimen Acceptance Criteria

5.1.1 CDC accepts submission of specimens from **individuals previously diagnosed** with viral hepatitis for non-CLIA testing from local public health laboratories, state public health laboratories (SPHL), Organ Procurement Organizations (OPO) facilities, healthcare facilities, and other federal agencies for analysis after the investigation is initiated through the appropriate epidemiologist.

5.1.2 The 50.34 or GFAT specimen submission forms\* must include

5.1.2.1 Unique Laboratory Specimen ID assigned by the submitter (not Patient ID). This identifier can consist of any variation of numerical or alphanumeric characters

5.1.2.2 Information including – state/county, date of symptom onset, date of collection of specimen, age, sex, race, ethnicity, travel history, immunization status

5.1.2.3 In the comments section – include any associated risk factors (Food-borne, homelessness, healthcare associated,

|                                                                                                                                                  |                                                                         |                                  |                    |
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Person who use drugs (PWUD), Men having sex with men (MSM, etc.)

5.1.2.4 If such data listed above are not available, this needs to be stated in the form as “Not Available”.

**\* Attachment of a sample 50.34 and GFAT is included for reference**

Areas to be filled are highlighted in yellow on the 50.34 form, and areas that may contain PII that should not be filled are crossed through with a red line. The GFAT form has a screenshot of the information to be populated.

- 5.1.3 Specimen submitting laboratory has to ship samples in cryovials with the appropriate shipping documents (50.34 or GFAT). Ensure samples are stored at the appropriate temperature listed in the CDC Test Directory.
- 5.1.4 Ensure that frozen samples are shipped with enough dry ice to maintain -20°C or below until receipt at CDC.

## 5.2 Specimen Rejection Criteria

- 5.2.1 Specimen submitted with **PII (patient name, date of birth, medical identification record) in the 50.34 or GFAT** does not meet the acceptance criteria and will be **rejected**.

## 5.3 Shipping of Specimens to CDC

- 5.3.1 Please **ONLY** ship specimens on Mondays, Tuesdays or Wednesdays. Include enough dry ice to maintain a temperature of -20°C or below for at least 48 hours.
- 5.3.2 Follow CDC Test Directory instructions: [Specimen Submission Form | Submitting Specimens to CDC | Infectious Diseases Laboratories | CDC](#) Shipment should be by overnight express, on dry ice as “Clinical Specimens Category B”. Enough dry ice should be included to assure the specimens arrive at -20°C or colder. Include the paperwork with your samples: CDC Form 50.34 or GFAT

- a) Shipping Address
  - Attn: Unit 90
  - Centers for Disease Control and Prevention
  - 1600 Clifton Road NE
  - Atlanta, GA 30329
  - 404-639-3931; [dsrstat@cdc.gov](mailto:dsrstat@cdc.gov)

|                                                                                                                                                  |                                                                         |                                  |                    |
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| <b>Outbreak and Surveillance Sample Submission</b>                                                                                               |                                                                         |                                  |                    |
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## 5.4 Packaging Guidance

5.4.1 Determine the mode of transport for the package.

- a) Specimens should be shipped with overnight shipping
- b) Pack the specimen(s):

The mode of transport and specimen classification determine the packing requirements. Submitters may reference [IATA's packing instructions](#).

- c) Regardless of classification, all specimen submissions must include:
  - i) primary receptacle
  - ii) secondary packaging
  - iii) secondary container
  - iv) rigid, outer packaging

## 6. Results interpretation and Reporting

6.1 CDC DVH LAB will provide test results from previously diagnosed individuals as a non-CLIA report to the point of contact from the external submitter for outbreak and surveillance activities only. Results cannot be used as a diagnostic result or for patient management.

### 6.2 Disclaimer:

#### Test Order CDC-10531 – Hepatitis Surveillance – Surveillance report:

The reported non-CLIA test results from previously diagnosed individuals are obtained using research-use only assays that have not been approved by FDA for clinical use and used for surveillance and outbreak purposes only and not as a diagnostic result. Results from these assays may only be used for surveillance and outbreak purposes. The results of these non-CLIA test should not be used for the clinical diagnosis, treatment, or assessment of patient health or management. This report is not diagnostic, and cannot used for clinical management purposes.

## 7.0 Attachments

7.1 Specimen submission form 50.34 for non-CLIA testing (sample template provided for reference)

7.2 Specimen submission GFAT for non-CLIA testing (sample template provided for reference)

**Product Change History** (Please include a summary of changes applied)

| Ver | Description                                             | Effective Date |
|-----|---------------------------------------------------------|----------------|
|     | New Document. Drafted by: S. Ramachandran and T. Hayden | 20April2023    |

HUMAN

## CDC SPECIMEN SUBMISSION FORM: SPECIMENS OF HUMAN ORIGIN

## LABORATORY EXAMINATION REQUESTED

Additional form(s)/Info required

Test order name: Hepatitis Surveillance

Test order code: CDC-10531

Suspected Agent:

Date sent to CDC:

At CDC, bring to the attention of:

## PATIENT INFORMATION

Patient Name:

last

first

MI

Suffix

Birth date:

Case ID:

Sex:

Age:

Age Units:

Race:

☐ White☐ Black or African American☐ Asian☐ American Indian and Alaska Native☐ Native Hawaiian and Other Pacific Islander

Clinical Diagnosis:

Date of onset:

Pregnancy Status:

Fatal:

Date of Death:

## SPECIMEN INFORMATION

Specimen collected date: 04/11/2023

Time: --:-- --

Material Submitted:

Specimen source (type): Serum specimen

Specimen source modifier:

Specimen source site:

Specimen source site modifier:

Collection method:

Treatment of specimen:

Transport medium/Specimen preservative:

Specimen handling:

## CDC USE ONLY

Package ID#:

Delivered to Unit #:

Opened By:

Unit Specimen ID#:

Date received at CDC: / /

Date received at STAT: / /

Date received in testing lab: / /

Time: --:--

CDC Specimen  
Identification label

Barcode 1

| Condition          | STAT Laboratory | Testing Laboratory |
|--------------------|-----------------|--------------------|
| Outer Package      |                 |                    |
| Specimen Container |                 |                    |
| Specimen           |                 |                    |

## STATE PHL / NEW YORK CITY DEPARTMENT OF HEALTH &amp; MENTAL HYGIENE / FEDERAL AGENCY / INTERNATIONAL INSTITUTION / PEACE CORPS

Name: (Laboratory Director or designee)

Dr

Gilbert

Leah

MI

Suffix

MD

Prefix

Last

First

MI

Suffix

Degree

Institution name: CDC Occupational Health Clinic

Street Address: 1600 Clifton Rd

Line 1

Building 16, Room 1105, Mailstop A-29

Line 2

Atlanta

30329

City

ZIP Postal Code

Georgia

United States

State

Country

Fax: 1

404

639-3166

DutyNurse@cdc.gov

Country Code

Area Code

Local Number (e.g. 6390000)

Institutional e-mail

Point of Contact: (Person to be contacted if there is a question regarding this order)

Prefix

Last

First

MI

Suffix

Degree

Phone:

Country Code

Area Code

Local Number (e.g. 6390000)

POC e-mail

Patient ID:

Alternative Patient ID:

Specimen ID:

Alternative Specimen ID:

## ORIGINAL SUBMITTER

(Organization that originally submitted specimen for testing)

Name: (Laboratory Director or designee)

Prefix

Last

First

MI

Suffix

Degree

Institution name:

Street Address:

Line 1

Line 2

City

ZIP Postal Code

State

Country

Fax:

Country Code

Area Code

Local Number (e.g. 6390000)

Institutional e-mail

Point of Contact: (Person to be contacted if there is a question regarding this order)

Prefix

Last

First

MI

Suffix

Degree

Phone:

Country Code

Area Code

Local Number (e.g. 6390000)

POC e-mail

Patient ID:

Alternative Patient ID:

Specimen ID:

Alternative Specimen ID:

## INTERMEDIATE SUBMITTER

(Complete if specimen is submitted to SPHL through an intermediate agency)

Name: (Laboratory Director or designee)

Prefix

Last

First

MI

Suffix

Degree

Institution name:

Street Address:

Line 1

Line 2

City

ZIP Postal Code

State

Country

Fax:

Country Code

Area Code

Local Number (e.g. 6390000)

Institutional e-mail

Point of Contact: (Person to be contacted if there is a question regarding this order)

Prefix

Last

First

MI

Suffix

Degree

Phone:

Country Code

Area Code

Local Number (e.g. 6390000)

POC e-mail

Patient ID:

Alternative Patient ID:

Specimen ID:

Alternative Specimen ID:

# CDC SPECIMEN SUBMISSION FORM: SPECIMENS OF HUMAN ORIGIN

Patient Name:

AND/OR Original Patient ID:

AND/OR SPHL Specimen ID:

Last

First

## PATIENT HISTORY

### BRIEF CLINICAL SUMMARY (Include signs, symptoms, and underlying illnesses if known)

### STATE OF ILLNESS

- ☐ Symptomatic
- ☐ Asymptomatic
- ☐ Acute
- ☐ Chronic
- ☐ Convalescent
- ☐ Recovered

### TYPE OF INFECTION

- ☐ Upper respiratory
- ☐ Lower respiratory
- ☐ Cardiovascular
- ☐ Gastrointestinal
- ☐ Genital
- ☐ Urinary tract
- ☐ Other, specify
- ☐ Sepsis
- ☐ Central nervous system
- ☐ Skin/soft tissue
- ☐ Ocular
- ☐ Joint/bone
- ☐ Disseminated

### THERAPEUTIC AGENT(S) DURING ILLNESS

| Agent | Start Date | End Date |
|-------|------------|----------|
| 1     |            |          |
| 2     |            |          |
| 3     |            |          |

## EPIDEMIOLOGICAL DATA

### EXTENT

- ☐ Isolated Case
- ☐ Carrier
- ☐ Contact
- ☐ Outbreak
  - ☐ Family
  - ☐ Community
  - ☐ Healthcare-associated
  - ☐ Epidemic

### TRAVEL HISTORY

Travel: to Dates of Travel: to

Travel: Foreign (Countries)

Travel: United States (States)

Foreign Residence (Country)

United States Residence (State)

Note: Additional states or countries of residence or travel should be entered in the Brief Clinical Summary field.

### EXPOSURE HISTORY

- ☐ Animal

Exposure: Date of Exposure: Type of Exposure:

Common Name:

Scientific Name:

- ☐ Arthropod

Type of Exposure:

Common Name:

Scientific Name:

### RELEVANT IMMUNIZATION HISTORY

| Immunization(s) | Date Received |
|-----------------|---------------|
| 1               |               |
| 2               |               |
| 3               |               |
| 4               |               |

### PREVIOUS LABORATORY RESULTS (Or attach copy of test results or worksheet)

### COMMENTS

Include risk factors - food-borne, homelessness, healthcare associated, Person who use drugs (PWUD), Men having sex with men (MSM, etc.).  
 \*PII (patient name, date of birth, case ID, patient ID, medical identification record) details are not to be entered.

CDC USE ONLY  
Barcode 2

Barcode 3

The Centers for Disease Control and Prevention (CDC), an agency of the Department of Health and Human Services, is authorized to collect this information, including the Social Security number (if applicable), under provisions of the Public Health Service Act, Section 301 (42 U.S.C. 241). Supplying the information is voluntary and there is no penalty for not providing it. The data will be used to increase understanding of disease patterns, develop prevention and control programs, and communicate new knowledge to the health community. Data will become part of CDC Privacy Act system 09-20-0106, "Specimen Handling for Testing and Related Data" and may be disclosed: to appropriate State or local public health departments and cooperating medical authorities to deal with conditions of public health significance; to private contractors assisting CDC in analyzing and refining records; to researchers under certain limited circumstances to conduct further investigations; to organizations to carry out audits and reviews on behalf of HHS; to the Department of Justice in the event of litigation, and to a congressional office assisting individuals in obtaining their records. An accounting of the disclosures that have been made by CDC will be made available to the subject individual upon request. Except for permissible disclosures expressly authorized by the Privacy Act, no other disclosure may be made without the subject individual's written consent. Please refer to the CDC Infectious Diseases Laboratories Test Directory for information on specimen requirements. CDC must maintain and document specific acceptance criteria to perform laboratory tests on samples obtained from humans pursuant to the Clinical Laboratory Improvement Amendments of 1988 (CLIA) and accompanying regulations. 42 U.S.C. § 263a; 42 C.F.R. § 493.1241. Samples transferred to the CDC for testing or any other purpose will become the legal property of the agency unless otherwise agreed upon in writing. Samples will not be returned to the submitting entity.

