



DISTRICT OF COLUMBIA  
**DFS**  
DEPARTMENT OF  
FORENSIC SCIENCES

Forensic Science Laboratory | Public Health Laboratory | Crime Scene Sciences

# UTILIZATION OF ELECTRONIC TEST ORDERS AND RESULTS (ETOR) IN PUBLIC HEALTH LABORATORIES DURING THE COVID-19 RESPONSE

Clinical Laboratory Improvement Advisory Committee

October 28, 2020

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Director, DC Public Health Laboratory

DC Department of Forensic Sciences

Forensic Science Laboratory | Public Health Laboratory | Crime Scene Sciences



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DC MURIEL BOWSER, MAYOR

# THE DARK AGES

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...a period of intellectual darkness and barbarity. – Britannica



Depiction of King Valdemar IV of Denmark in 1361. *Painting by Carl Gustaf Hellqvist 1851-1890.*



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# IT WAS A DARK AND STORMY DAY

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In May of 2016, DFS PHL received a complaint from DC Health in reference to missing Zika reports





# WHO NEEDS LIMS WHEN YOU HAVE EXCEL?

| DCDOH Zika Case Number | Date Approval Email sent | Patient First name | Patient Last Name | Patient State of Residenc | Sex (1 = female) | Birthdate  | Provider's Facility  | Date Shipped to CDC | CDC report Receiving date | Date fax CDC report to DOH | Status   |
|------------------------|--------------------------|--------------------|-------------------|---------------------------|------------------|------------|--|---------------------|---------------------------|----------------------------|--|
| Z.DC.066               | 3/9/2016                 | [REDACTED]         | [REDACTED]        | DC                        | 1                | 11/18/1986 | Sibley Memorial Hospital Maternal Fetal Medicine                               |                     |                           |                            | Discrepant information   |
| Z.DC.091               | 2/16/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 12/1/1976  | Reiter, Hill, Johnson, Nevin (OB/GYN)  | 2/23/2016           |                           |                            | Specimen at CDC  |
| Z.DC.092               | 2/16/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 10/18/1984 | MedStar Washington Hospital Center Maternal-Fetal Medicine                     | 5/3/2016            |                           |                            | Specimen at CDC  |
| Z.DC.094               | 2/22/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 1/21/1980  | Farragut Medical   | 2/25/2016           |                           |                            | Specimen at CDC  |
| Z.DC.097               | 2/17/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 7/25/1985  | Sibley Memorial Hospital Maternal Fetal Medicine                               |                     |                           |                            | No specimen received at PHL (Clinic response: No blood draw)                 |
| Z.DC.106               | 2/19/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 10/30/1979 | MedStar Washington Hospital Center Maternal-Fetal Medicine                     | 5/3/2016            |                           |                            | Specimen at CDC  |
| Z.DC.115               | 2/19/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 9/28/1983  | MedStar Washington Hospital Center Maternal-Fetal Medicine                     | 5/3/2016            |                           |                            | Specimen at CDC  |
| Z.DC.117               | 2/22/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 2/7/1981   | GWU MFA  |                     |                           |                            | No specimens received at PHL (Not listed on GWU specimens send out list)     |
| Z.DC.127a              | 4/4/2016                 | [REDACTED]         | [REDACTED]        | DC                        | 1                | 11/21/1978 | World Bank Health Group  | 3/29/2016           | 3/29/2016                 | 5/5/2016                   | CDC Report sent to DOH   |
| Z.DC.136               | 2/29/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 4/23/1985  | Private Office: Dr. Footer   | 3/22/2016           |                           |                            | Specimen at CDC  |
| Z.DC.154               | 3/10/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 3/5/1982   | Q Street Medical Associates  | 3/22/2016           | 4/5/2016                  | 5/5/2016                   | Specimen at CDC  |
| Z.DC.160               | 3/22/2016                | [REDACTED]         | [REDACTED]        | VA                        | 1                | 5/6/1973   | MGUH Dept of OB/GYN  | 5/3/2016            |                           |                            | Specimen at CDC  |
| Z.DC.162               | 3/11/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 3/1/1981   | MedStar Georgetown University Hospital Department of Obstetrics and Gynecology | 3/22/2016           |                           | 3/25/2016                  | PCR test completed in PHL, report sent out to DOH                            |
| Z.DC.172               | 3/16/2016                | [REDACTED]         | [REDACTED]        | DC                        | 0                | 3/3/2014   | Children's Pediatric Assoc   |                     |                           | 3/18/2016                  | PCR test completed in PHL, report sent out to DOH                            |
| Z.DC.175               | 3/16/2016                | [REDACTED]         | [REDACTED]        | DC                        | 0                | 9/9/1980   | Comprehensive Primary Care   | 5/5/2016            |                           |                            | PCR testing initiated  |
| Z.DC.182               | 3/17/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 4/4/1981   | GWU MFA  | 3/29/2016           |                           |                            | Specimen at CDC  |
| Z.DC.185               | 3/18/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 7/26/1977  | Farragut Medical   | 3/29/2016           |                           |                            | Specimen at CDC  |
| Z.DC.192               | 3/23/2016                | [REDACTED]         | [REDACTED]        | DC                        | 0                | 7/1/1980   | Kaiser Permanente  | 5/3/2016            |                           | 5/5/2016                   | Specimen at CDC; PCR test report sent to DOH                                 |
| Z.DC.193               | 3/23/2016                | [REDACTED]         | [REDACTED]        | MD                        | 1                | 1/15/1988  | Mary's Center  |                     |                           | 4/22/2016                  | PCR test completed in PHL, report sent out to DOH                            |
| Z.DC.194               | 3/23/2016                | [REDACTED]         | [REDACTED]        | MD                        | 1                | 4/22/1994  | Mary's Center  |                     |                           | 4/23/2016                  | PCR test completed in PHL, report sent out to DOH                            |
| Z.DC.195               | 3/23/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                | 9/18/1993  | Georgetown Student Health Center   |                     |                           | 4/22/2016                  | PCR test completed in PHL, report sent out to DOH                            |
| Z.DC.199               | 3/24/2016                | [REDACTED]         | [REDACTED]        | DC                        | 1                |            | Georgetown Student Health Center   |                     |                           |                            | No specimen received at PHL (hospital said no record found for that patient) |



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# BUT WAIT, THERE WAS MORE!

| Date Received | Lab ID | LIMS ID | Specimen                | Collection Date | FIRST NAME | LAST NAME | DOB MM/DD/YYYY | SEX | SUBMITTER                          | TEST REQUESTED | UNIT TRANSFERRED TO | DATE SENT OUT |
|---------------|--------|---------|-------------------------|-----------------|------------|-----------|----------------|-----|------------------------------------|----------------|---------------------|---------------|
| 1/21/2016     | 16-084 |         | SERUM-Z.DC.021          | 1/20/2015       | ██████     | ██████    | 32-Y           | F   | Medstar Washington Hospital Center | Zika Virus     | Send out/CDC        | 1/21/2016     |
| 1/21/2016     | 16-085 |         | SERUM-Z.DC.006          | 1/20/2015       | ██████     | ██████    | 35-Y           | F   | Foxhall OBGYN                      | Zika Virus     | Send out/CDC        | 1/21/2016     |
| 1/21/2016     | 16-086 |         | SERUM-Z.DC.005          | 1/19/2016       | ██████     | ██████    | 33-Y           | F   | Dr.Gary M Koritzinsky              | Zika Virus     | Send out/CDC        | 1/21/2016     |
| 1/27/2016     | 16-087 |         | SERUM-Z.DC.009          | 1/22/2016       | ██████     | ██████    | 38-Y           | F   | MEDSTAR Georgetown Univ Hospital   | Zika Virus     | Send out/CDC        | 1/28/2016     |
| 1/27/2016     | 16-088 |         | SERUM-Z.DC.010          | 1/26/2016       | ██████     | ██████    | 29-Y           | F   | Dr.Maximilian Oshalim              | Zika Virus     | Send out/CDC        | 1/28/2016     |
| 1/27/2016     | 16-089 |         | SERUM-Z.DC.008          | 1/26/2016       | ██████     | ██████    | 35-Y           | F   | George Washington Univ Hospital    | Zika Virus     | Send out/CDC        | 1/28/2016     |
| 1/28/2016     | 16-102 |         | AMNIOTIC FLUID-Z.DC.003 | 1/28/2016       | ██████     | ██████    | 33-Y           | F   | SIBLEY HOSPITAL                    | Zika Virus     | Send out/CDC        | 1/28/2016     |
| 1/29/2016     | 16-105 |         | SERUM-Z.DC.011          | 1/29/2016       | ██████     | ██████    | 41-Y           | M   | KAISER Permanente                  | Zika Virus     | Send out/CDC        | 2/1/2016      |
| 2/1/2016      | 16-110 |         | SERUM-Z.DC.012          | 1/28/2016       | ██████     | ██████    | 34-Y           | F   | Medical Faculty Assoc. Of GWUH     | Zika Virus     | Send out/CDC        | 2/2/2016      |
| 2/2/2016      | 16-114 |         | SERUM-Z.DC.013          | 2/2/2016        | ██████     | ██████    | 36-Y           | F   | Medical Faculty Assoc. Of GWUH     | Zika Virus     | Send out/CDC        | 2/2/2016      |
| 2/2/2016      | 16-115 |         | PLASMA-Z.DC.015         | 2/2/2016        | ██████     | ██████    | 15-Y           | M   | Childrens National Medical Center  | Zika Virus     | Send out/CDC        | 2/2/2016      |
| 2/4/2016      | 16-120 |         | SERUM-Z.DC.007          | 1/27/2016       | ██████     | ██████    | 17-M           | M   | MEDSTAR Georgetown Univ Hospital   | Zika Virus     | Send out/CDC        | 2/4/2016      |
| 2/4/2016      | 16-121 |         | SERUM-Z.DC.016          | 2/3/2016        | ██████     | ██████    | 33-Y           | F   | Medical Faculty Assoc. Of GWUH     | Zika Virus     | Send out/CDC        | 2/4/2016      |
| 2/4/2016      | 16-122 |         | LIVER-Z.DC.003          | 2/3/2016        | ██████     | ██████    | 1-D            | F   | Childrens National Medical Center  | Zika Virus     | Send out/CDC        | 2/4/2016      |
| 2/4/2016      | 16-123 |         | KIDNEY-Z.DC.003         | 2/3/2016        | ██████     | ██████    | 1-D            | F   | Childrens National Medical Center  | Zika Virus     | Send out/CDC        | 2/4/2016      |
| 2/4/2016      | 16-124 |         | BRAIN-Z.DC.003          | 2/3/2016        | ██████     | ██████    | 1-D            | F   | Childrens National Medical Center  | Zika Virus     | Send out/CDC        | 2/4/2016      |
| 2/4/2016      | 16-125 |         | LUNG-Z.DC.003           | 2/3/2016        | ██████     | ██████    | 1-D            | F   | Childrens National Medical Center  | Zika Virus     | Send out/CDC        | 2/4/2016      |

# SAMPLE REPORT TEMPLATE

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
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DEPARTMENT OF FORENSIC SCIENCES  
CONSOLIDATED FORENSIC LABORATORY  
401 E STREET SW WASHINGTON, DC 20024

**PUBLIC HEALTH LABORATORY**  
PHONE #: (202) 727-8956  
CLIA # 09D0968273  
**Laboratory Report**

**Date Submitted:** 3/9/2016

**Submitter:** MEDSTAR Georgetown Univ Hospital

**Collection Date:** 3/7/2016

**Specimen Type:** SERUM

**Test Requested:** Zika Virus

**PHL Lab Number:** 16-410

**Patient First Name:** [REDACTED]

**Patient Last Name:** [REDACTED]

**Age:** 31-Y

**Sex:** F

**DOH Epi ID:** -Z.DC.140

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**PHL Test Results:**

*Molecular Diagnostic Testing*

**Test:** Zika virus PCR

**Result\*:** Negative for Zika Virus RNA

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\*A negative Zika Virus PCR result will be forwarded to CDC for further serological testing to rule out any presence of Zika Virus.

**Analyzed by:** [REDACTED]

**Reviewed by:** [REDACTED]

**Report Date:** 03/11/16



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# THE RENAISSANCE

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...primarily a time of revival of Classical learning and wisdom after a long period of cultural decline and stagnation– Britannica



Sistine Chapel - Javier Sánchez / Getty Images



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# CHANGING THE CULTURE

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**“It turns out we don’t know the definition of change.”**

The laboratory was using the LIMS but only to log specimens in, not to transfer specimens, enter results, review results, develop reports OR send-out reports



# (RE)IMPLEMENTING THE LIMS

---

Set up a bold plan to upgrade HORIZON Chemware to v12.5 by Oct. 1, 2017

1. Ensure that all test codes were being used appropriately
2. All backlogs were cleared
3. All staff were trained

## PRODUCT UPDATE



# 12.6

# (RE)IMPLEMENTING THE LIMS

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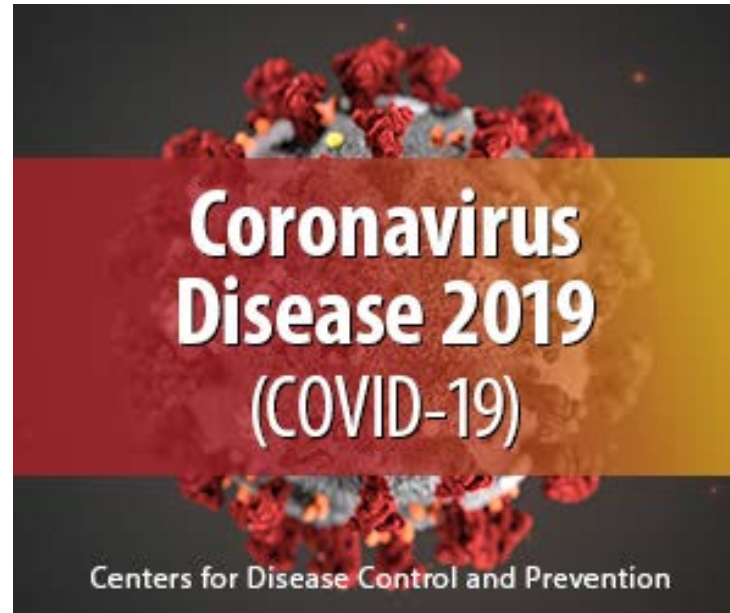
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# ALL IT TAKES IS A PANDEMIC

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<https://www.cdc.gov/coronavirus/2019-ncov/communication/graphics-buttons.html>



DC | **HEALTH**



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# LABONLINE

Welcome, (as DC Department of Health) ▾ Home



Online lab results,  
powered by HORIZON®

[Workorders](#) [Samples](#) [Patients](#) [Orders ▾](#) [Other Reports ▾](#) [Test Catalog](#)



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Welcome to LabOnline, the DC DFS Public Health Laboratory web portal.

Samples

2812 reports ↕

Patients

2812 reports ↕

Other Reports

1 report ↕



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# LABONLINE TEST ORDERING

Workorders

Samples

Patients

Orders ▾

Other Reports ▾

Test Catalog

Order Tests

View Orders

## ADD SAMPLES & TESTS

Line item: \*

[1] SARS2COV

x

Collected: \*

04/25/2020



12:00



Special instructions:

# LABONLINE ORDERS

Workorders Samples Patients Orders ▾ Other Reports ▾ Test Catalog

Order Tests

View Orders

Display:

Current

Needs Signature

Needs Review

Ordered

Scheduled

 Ship to Lab

 Contact Lab

 Download

 Print

Chain of Custody ▾

Order Status ▾

Ordered ▾

Submitter ▾

1309

Ordered

04/25/2020 10:14

Labonline User

1307

Ordered

04/24/2020 09:30

Labonline User



# LABONLINE TEST REQUEST FORM



Public Health Laboratory  
 Department of Forensic Sciences  
 401 E Street SW 4th Floor  
 Washington, DC 20024  
 Phone (202)727-8956  
 Fax (202)481-3464

## Test Request



1309

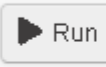
|   |  |                    |  |   |  |  |  |         |                         |                                     |  |                              |  |       |  |    |  |
|---|--|--------------------|--|---|--|--|--|---------|-------------------------|-------------------------------------|--|------------------------------|--|-------|--|----|--|
| <b>Patient Information</b>  |  |                    | <input type="checkbox"/> Non-human/anonymous |   |  | <b>Submitter Information</b>                       |  |         |                         |                                     |  |                              |  |       |  |    |  |
| Patient Medical Record Number<br>COVID_042520   |  |                    |  |   |  | Provider/Clinic Name<br>Database Account Test Code |  |         | Reference Number<br>102 |                                     |  |                              |  |       |  |    |  |
| Last Name<br>Lovestrains  |  | First Name<br>Liam |  | MI  |  | Collector  |  | Phone   |                         | Collect Date<br>04/25/2020 12:00:00 |  |                              |  |       |  |    |  |
| DOB (MM/DD/YYYY)<br>04/25/2018  |  | Race               |  | Ethnicity                                       |  | Special Instructions/Other Comments                |  |         |                         |                                     |  |                              |  |       |  |    |  |
| SSN   |  | Gender<br>Male     |  | Street Address<br>401 E st SW, DC Public Health |  |  |  |         |                         |                                     |  |                              |  |       |  |    |  |
| DC Public Health Laboratory   |  |                    |  |   |  |  |  |         |                         |                                     |  | <b>Insurance Information</b> |  |       |  |    |  |
| City<br>Washington  |  | State<br>DC        |  | ZIP<br>20024                                    |  |  |  |         |                         |                                     |  | Carrier                      |  | Group |  | ID |  |
| County  |  | Country            |  | Phone   |  | 1 Responsible Party                                |  | DOB/SSN |                         | Carrier                             |  |                              |  |       |  |    |  |
| Maiden Name   |  | Parent/Guardian    |  | 2 Responsible Party                             |  | DOB/SSN  |  |         |                         |                                     |  |                              |  |       |  |    |  |
| <b>Report Recipient Information</b>   |  |                    |  |   |  |  |  |         |                         |                                     |  |                              |  |       |  |    |  |
| Name<br>Labonline User  |  |                    |  |   |  | Street Address                                     |  |         |                         |                                     |  |                              |  |       |  |    |  |
| Deliver Results by<br><input type="checkbox"/> Mail <input type="checkbox"/> Fax <input type="checkbox"/> Email <input checked="" type="checkbox"/> Web |  |                    |  |   |  |  |  |         |                         |                                     |  |                              |  |       |  |    |  |
| Phone   |  | Fax                |  | Email   |  | City   |  | State   |                         | ZIP                                 |  |                              |  |       |  |    |  |

|                                      |  |
|--------------------------------------|--|
| <b>Test(s) Requested</b>             |  |
| Specimen Source: Nasopharyngeal Swab |  |
| SARSCOV2 - 2019 Novel Coronavirus    |  |



# LABONLINE REPORTS

## Queries

 Run

**Query Name**

LabOnline Patients

An official report can be viewed as a PDF

Query Criteria

Query: LabOnline Patients

Column: collect\_date Operator: on or after Value: 04/02/2020

Select... | Select... | add

Done Cancel

- analyte\_name
- analyzed\_date
- cmp\_text
- collect\_date
- cust\_sample\_id
- lab\_sample\_id
- matrix

| matrix              | analyte_name   | method_desc | cmp_text                | wip_status |
|---------------------|----------------|-------------|-------------------------|------------|
| Oropharyngeal Swab  | Interpretation | RT-qPCR     | SARS-COV-2 Not Detected | Reported   |
| Nasopharyngeal Swab | Interpretation | RT-qPCR     | SARS-COV-2 Not Detected | Amended    |
| Nasopharyngeal Swab | Interpretation | RT-qPCR     | SARS-COV-2 Detected     | Amended    |
| Oropharyngeal Swab  | Interpretation | RT-qPCR     | SARS-COV-2 Not Detected | Reported   |

A line list can be pulled based on the patient query

## Search Criteria

Note: Only samples from the last 30 days are available

Search: search by Chain of Custody, My Sample ID, Patient ID

Filter: All In Progress Reported

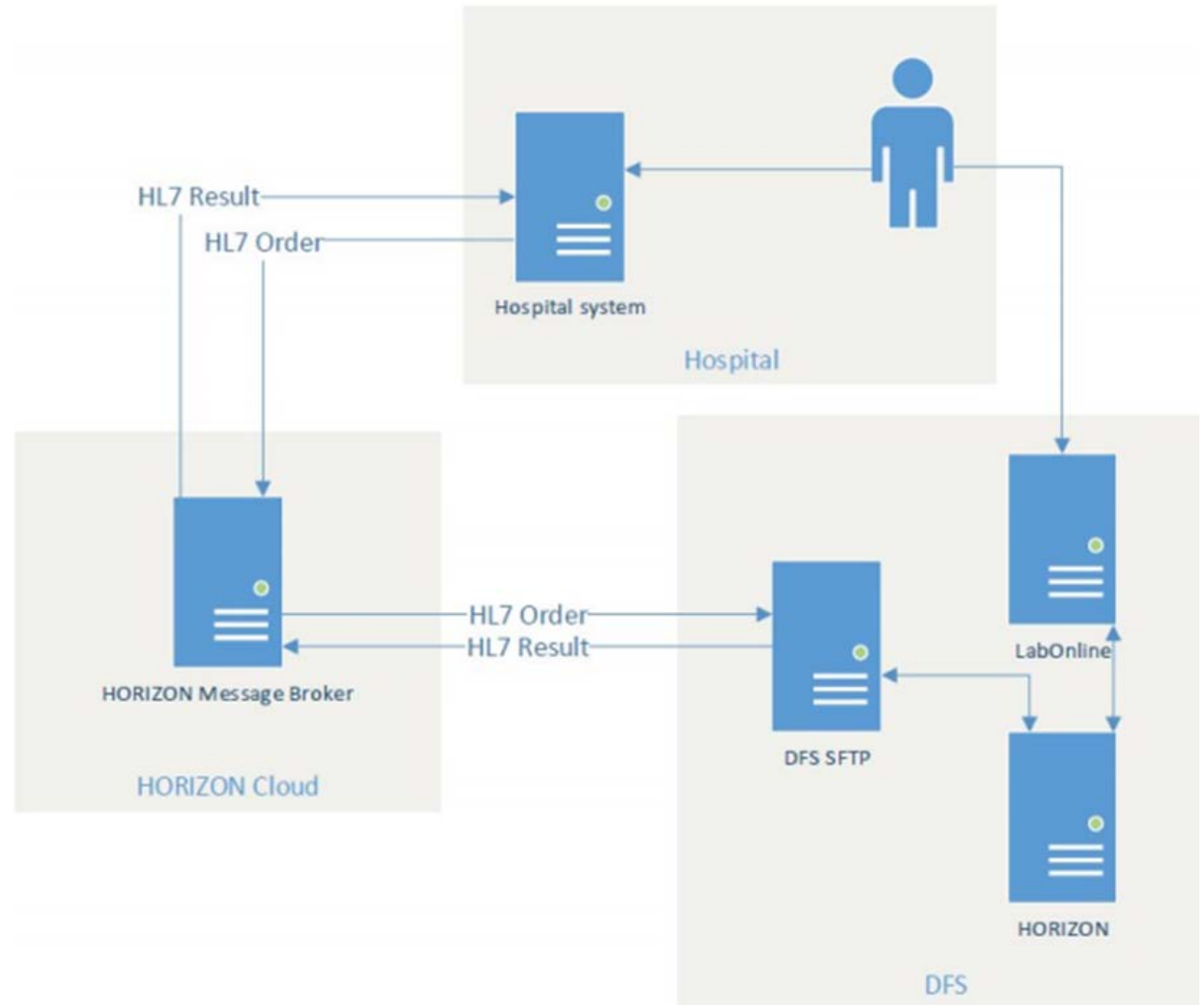
Mark as Read Mark as Unread

| Status           | Final Report                  | Chain of Custody |
|------------------|-------------------------------|------------------|
| Work in Progress |                               | 1312             |
| Work in Progress |                               | 1312             |
| Work in Progress |                               | 1312             |
| Reported         | Restricted                    | 1308             |
| Completed        |                               | Test             |
| Reported         | <a href="#">View (unread)</a> | 1292             |
| Reported         | <a href="#">View (unread)</a> | 1292             |
| Reported         | <a href="#">View (unread)</a> | 1292             |

# THE FUTURE IS INTERFACING

An LIS interface will:

- increase speed of resulting
- reduce manual entry
- reduce errors
- allow the laboratory to know what samples are in transit





# APHL TO THE RESCUE

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- o Many of our informatics barriers deal with laboratory data exchange.
- o We use the AIMS platform to
  1. Send influenza data via PHLIS2

2. HAI data via the portal



# LAB WEB PORTAL

The screenshot shows the Lab Web Portal dashboard. At the top left is the DFS logo (District of Columbia Department of Forensic Sciences). To its right is a hamburger menu icon followed by the text "Dashboard". On the top right, there is a gear icon and the name "MATTHEW MCCARROLL".

The dashboard features a dark blue sidebar on the left with the following menu items: "Dashboard", "Incomplete Orders", "In Transit Orders", "All Orders", "Published Reports", "My Patients", and "Help". Below these are three blue buttons: "ORDER TESTS", "BATCHUPLOAD", and "VIEW REPORTS".

The main content area contains four white cards with rounded corners:

- 547 MY PATIENTS**
- 564 IN TRANSIT**
- 0 PUBLISHED REPORTS** with a progress bar showing "VIEWED" at 0%.
- 0 NEW ORDERS**

The Lab Web Portal is a public health-focused electronic test orders and results web portal solution hosted on the AIMS Platform.

# ELECTRONIC ORDERING

The image displays two identical screenshots of the DFS (District of Columbia Department of Forensic Sciences) electronic ordering interface. Each screenshot features a dark sidebar on the left with a menu containing: Dashboard, Incomplete Orders, In Transit Orders, All Orders, Published Reports, My Patients, and Help. At the bottom of the sidebar, two buttons are visible: 'ORDER TESTS' and 'BATCHUPLOAD', both of which are highlighted with a red rectangular border. The main content area of each interface shows a 'Forms' menu icon at the top left, followed by a large white box containing the text 'SARS-CoV-2 RT-PCR' and 'Hologic Panther Fusion'. The DFS logo is present in the top left corner of each interface.

- Allows electronic ordering flexibility
  - Individual patient test ordering
  - Batch upload of a group of patient tests



# TRACKING ORDERS

Dashboard

Incomplete Orders

In Transit Orders

Quick Search

Collected Submitted Received In Process Published Report Viewed Report

Jun 25 2020 Jul 15 2020

PORTAL ID SPECIMEN ID PATIENT NAME

- Submitters have clear milestone tracking capabilities for the status of their order
- Removes the need for submitters to call to see if their results are ready yet.

# LWP TEST REQUISITION FORM

- Test Requisition form is printed out and accompanies the submitted samples.
- Includes all patient information, submitter information and additional information
- Barcode in top right is scanned to auto-populate information into LIMS

District of Columbia. Department of Forensic Sciences. Public Health Laboratory  
401 E Street SW, 4 th Floor  
Washington, DC 20024

Novel Coronavirus 2019 Real Time RT-PCR Requisition  
Submitted By: Matthew McCarroll  
Date Submitted: 7/15/2020 10:50:50 AM



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Order ID: OIDDC20000572

| Patient Demographics  |                                 |
|---|---------------------------------|
| Last Name: <b>Daniel</b>  | First Name: <b>Katie</b>        |
| Date of Birth: <b>04/30/1967</b>                                      |                                 |
| Gender: <b>Male</b>   |                                 |
| Ethnicity: <b>Not Hispanic or Latino</b>                              |                                 |
| Race: <b>White/Caucasian</b>  |                                 |
| Address:  | City: <b>Washington</b>         |
| State: <b>DC</b>  | Zip Code: <b>20060</b>          |
| Medical Record Number:  | Sample ID: <b>3006954</b>       |
| Submitter Information   |                                 |
| Facility Name: <b>Test facility</b>                                   | Fax Number: <b>9998881111</b>   |
| Phone Number: <b>9998887777</b>                                       |                                 |
| Address: <b>801 Mt Vernon Pl NW</b>                                   |                                 |
| City: <b>Washington</b>   | State: <b>DC</b>                |
| Health Care Provider: <b>Forrester, Juliet</b>                        | Zip Code: <b>20001</b>          |
| Phone Number: <b>202-865-6100</b>                                     | Npi: <b>1033270160</b>          |
| Primary Contact: <b>Smith, John</b>                                   | Fax Number: <b>202-868-3612</b> |
| Fax Number:   | Phone Number:                   |
|   | Email:                          |
| Specimen Information  |                                 |
| Date of Collection: <b>6/25/2020 12:00:00 AM</b>                      |                                 |
| Reason for Submission: <b>Diagnostic</b>                              | Specimen Type: <b>Swab</b>      |
| Specimen Source: <b>Nasopharyngeal</b>                                |                                 |
| Additional Comments/Information:                                      |                                 |
|   |                                 |
| Q&A   |                                 |
| Earliest Symptom Onset Date?  |                                 |
| Has the patient experienced any symptoms                              |                                 |
| If the patient has experienced symptoms, please check all that apply: |                                 |



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# NEXT STEPS

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- Continue use of Horizon LabOnline portal for ETOR
  - Customization of ETOR process with stakeholders
- Expansion of Phase 1 (COMPLETE)
  - Implementation of LWP with District nursing homes to test for vulnerable populations
- Phase 2 of Lab Web Portal
  - Complete integration with hospital LIMS
- New LIMS?



# THANK YOU!



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