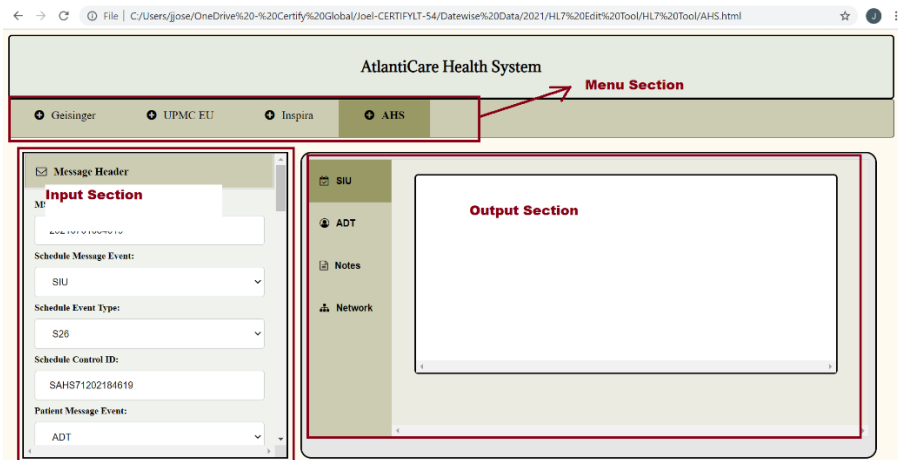


## Purpose of the tool

The tool is created to simplify HL7 message creation for testing.



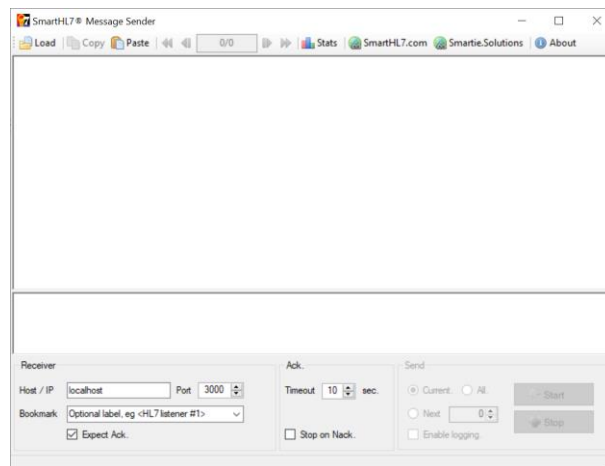
The tool is divided into three sections:

- 1) **Menu Section** : To navigation various client.
- 2) **Input Section**: To fill in dynamic values for the fields that would be displayed in the HL7.
- 3) **Output Section**: Has multiple tabs with the various HL7 message types used for each client and notes and network section.

\*\*The **Notes** tab in the Output section stores the key values like the message control number, Patient ID, Patient Name, Location details etc. This is useful in providing information about the message created and in troubleshooting.

\*\*The **Network** tab in the Output section has the IP and Port details where a particular message type needs to be sent to replicate a message sent by clients.

We will be using the **SmartHL7.Message.Sender** tool to send the messages to TCP IP configured.



### Example flow: Inspira IMG Covid Result Testing.

Inspira IMG covid result testing will require three types of HL7 messages: SIU, ADT and ORU (MDM).

The screenshot shows a web browser window with the title "IMG Covid Result.html". The address bar shows the file path: "C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...". The application title is "Inspira IMG - Covid Result Testing". Below the title is a navigation bar with four tabs: "Geisinger", "UPMC EU", "Inspira" (selected), and "AHS". The main content area is divided into two panels. The left panel, titled "Message Header", contains the following fields: "MSH Date/Time:" with value "20210701091227", "Schedule Message Event:" with a dropdown menu showing "SIU", "Schedule Event Type:" with a dropdown menu showing "S12", "Schedule Control ID:" with value "IMGS71202191227", and "Patient Message Event:" with a dropdown menu showing "ADT". The right panel contains a sidebar with a list of options: "SIU" (selected), "ADT", "ORU", "Notes", and "Network". The main area of the right panel is a large empty box.

The screenshot shows the same web browser window and application title as the previous screenshot. The navigation bar remains the same. The left panel, titled "Patient Event", contains the following fields: "Patient Event Type:" with a dropdown menu showing "A04", "Patient Control ID:" with value "IMGA71202191227", "Result Message Event:" with a dropdown menu showing "ORU", "Result Event Type:" with a dropdown menu showing "R01", "Result Control ID:" with value "IMGO71202191227", and "Admit Date/Time:". The right panel remains the same as in the previous screenshot, with the "SIU" option selected in the sidebar.



IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Patient Details

Patient ID:

IC7191227

First Name:

TestPatientOne

Middle Name:

JulyOne

Last Name:

CertifyCovidIMG

Date of Birth:

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Last Name:

CertifyCovidIMG

Date of Birth:

02/16/1994

Gender:

Male

Race:

White

Address Line 1:

123 Main Street

Address Line 2:

Next Lane

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Next Lane

City:  
New York

State:  
NY

Zip:  
XYZ123

Home Phone:  
8560000000

Mobile Phone:  
8560000000

Email:

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Email:  
testpat@gmail.com

Work Phone:  
8560000000

Work Phone Extension:  
456

Marital Status:  
Married

Account Number:  
AIC7191227

Next of Kin Details

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

### Inspira IMG - Covid Result Testing

Geisinger UPMC EU Inspira AHS

AIC7191227

Next of Kin Details

☐ Copy Patient Values.

First Name:

Last Name:

Relationship:

Wife

Address Line 1:

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

### Inspira IMG - Covid Result Testing

Geisinger UPMC EU Inspira AHS

AIC7191227

Next of Kin Details

☒ Copy Patient Values.

First Name:

TestPatientWife

Last Name:

CertifyCovidIMG

Relationship:

Wife

Address Line 1:

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Relationship:  
Wife

Address Line 1:  
123 Main Street

Address Line 2:  
Next Lane

City:  
New York

State:  
NY

Zip:  
XYZ123

SIU

ADT

ORU

Notes

Network

IMG Covid Result.html

File | C:/Users/fjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUIInspiraAHS

Home Phone:  
8560000000

Work Phone:  
8560000000

Patient Visit

Location:  
FM Tom Station

Observation Details

Placer Order Number:

SIU

ADT

ORU

Notes

Network





IMG Covid Result.html

CertifyCare

File | C:/Users/jjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUInspiraAHS

Patient Visit

Location:  
FM Glassboro

Observation Details

Placer Order Number:  
A01072021001

Observation Date/Time:  
07/01/2021 10:30 AM

Submit

SIU

ADT

ORU

Notes

Network

MSH^~^&IHN\_NJ^FM TomStat^HUB^HUB/20210701091227^ORU^R01^IMG071202191227^2.3  
ZAD^FM TomStat^660 Woodbury-Glassboro Road^Sewell^NJ^08080  
PID^IC7191227^MRN^MRN^SOARF^IC7191227^MRN^MR^SOARF^CertifyCovidIMG^TestPatie  
ntOne^JulyOne^Alternate^19940216^M^WHITE^123 Main Street^Next Lane^New  
York^NY^XYZ123^US^Home^testpat@gmail.com-8560000000^PRNPH^Phone-8560000000^ORN  
CP^8560000000^WPNPH^456^ENG^M^AIC7191227^FIN^FIN NBR  
PV1^1^Outpatient^FM Glassboro^456^ENG^M^AIC7191227^FIN^FIN NBR  
Glassboro^20210701091800  
OBR^1^A01072021001^HNAM\_ORDERID^QCOV2FLUAB^20210701103000^1760465603^Herma  
n^Gregory^M.D.^NPI^Personnel^National Provider Identifier^20210701103000^C  
OBX^1^TX^3545580997^SARS CoV 2-Q^Negative^Not Detected^Not Detected^A^F  
NTE^1^Result Comment^This nucleic acid amplification test was developed and its performance  
NTE^2^Result Comment^characteristics determined by LabCorp Laboratories. Nucleic acid  
NTE^3^Result Comment^amplification tests include RT-PCR and TMA. This test has not been  
NTE^4^Result Comment^FDA cleared or approved. This test has been authorized by FDA under  
NTE^5^Result Comment^an Emergency Use Authorization (EUA). This test is only authorized  
NTE^6^Result Comment^for the duration of time the declaration that circumstances exist

IMG Covid Result.html

CertifyCare

File | C:/Users/jjose/OneDrive%20-%20Certify%20Global/Joel-CERTIFYLT-54/Datewise%20Data/2021/HL7%20Edit%20Tool/HL7%20Tool/IMG%20Covid%20Result.ht...

Inspira IMG - Covid Result Testing

GeisingerUPMC EUInspiraAHS

Patient Visit

Location:  
FM Glassboro

Observation Details

Placer Order Number:  
A01072021001

Observation Date/Time:  
07/01/2021 10:30 AM

Submit

SIU

ADT

ORU

Notes

Network

Patient Details:

Name	Value
Message Event:	SIU^S12
Message Control ID:	IMG571202191227
Patient ID:	IC7191227
Patient Name:	TestPatientOne JulyOne CertifyCovidIMG
Date of Birth (DD/MM/YYYY):	16/02/1994
Location:	FM Glassboro

Inspira IMG - Covid Result Testing

Patient Visit

Location:  
FM Glassboro

Observation Details

Placer Order Number:  
A01072021001

Observation Date/Time:  
07/01/2021 10:30 AM

Submit

Demo Network Details:

Message Type	IP Address	Port
SIU:	10.8.1.24	9500
ADT:	10.8.1.24	9500
ORU:	10.8.1.24	9510

Total Appointments **1**

Appointment **1**

VISIT CODE	PATIENT NAME	DOB	PHONE NUM...	PROVIDER	QUEUE	AP...
14971	Imgttestpatinetone	06/28/2021	(790) 450-2377	GREGORY STIEFEL	1	11:25

Arrived **0**

VISIT CODE	PATIENT NAME	DOB	PHONE NUM...	PROVIDER	PROGRESS	QUEUE	AP...
<p>There are no Arrived Patients for Today.</p>							

SmartHL7® Message Sender - [Untitled - from Clipboard]

Load
Copy
Paste
1/1
Stats
SmartHL7.com
Smartie.Solutions
About

```

MSH|^~\&||HNA500|||20210701091227||SIU^S12|IMGS71202191227||2.3
SCH|AIC7191227^HNAMSCHEVID|||||PCP Established Patient|PCP Established Patient|100|MIN|^100^
20210701091800^20210701101800
||||^XKelley^Jason^MD^^^^NYSIIS||||^XKelley^Jason^MD^^^^NYSIIS||||SCHEDULED
PID||||IC7191227^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||19940216|M||WHITE|
123 Main Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~
8560000000^ORNC^8560000000^WPNPH^^^^456|ENG|M||
PD1||||04407^Stiefel^Gregory^G.^D.O.^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.
^D.O.^NPI^NYSIIS^^^National Provider Identifier
PV1|||
RGS|||
AIL||1||FM Glassboro^^FM Glassboro^^Radiology^FM Glassboro|Appointment|
AIP||1||04407^Stiefel^Gregory^G.^D.O.^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.
^D.O.^NPI^NYSIIS^^^National Provider Identifier|||20210701091800|0|MIN|100|MIN||SCHEDULED
    
```

Loaded

Receiver

Host / IP  Port

Bookmark

☒ Expect Ack.

Ack.

Timeout  sec.

☐ Stop on Nack.

Send

☒ Current. ☐ All.

☐ Next

☐ Enable logging.

Start

Stop

SmartHL7® Message Sender - [Untitled - from Clipboard]

Load Copy Paste 1/1 Stats SmartHL7.com Smartie.Solutions About

```

MSH|^~\&|HNA500||20210701091227||SIU^S12|IMGS71202191227||2.3
SCH|AIC7191227^HNAMSCHEVID|||||PCP Established Patient|PCP Established Patient|100|MIN|^100^
20210701091800^20210701101800
||||^XKelley^Jason^MD^^^^NYSIIS||||^XKelley^Jason^MD^^^^NYSIIS||||SCHEDULED
PID||||IC7191227^^^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||19940216|M||WHITE|
123 Main Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~
8560000000^ORNC^8560000000^WPNPH^^^^456|ENG|M||
PD1||||04407^Stiefel^Gregory^G.^D.O.^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.
^^D.O.^NPI^NYSIIS^^^National Provider Identifier
PVI|||
RGS|||
AIL||FM Glassboro^^FM Glassboro^^Radiology^FM Glassboro|Appointment|
AIP||1||04407^Stiefel^Gregory^G.^D.O.^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.
^^D.O.^NPI^NYSIIS^^^National Provider Identifier||20210701091800|0|MIN|100|MIN||SCHEDULED
    
```

Ack [0.473 sec]

Receiver

Host / IP  Port

Bookmark

☒ Expect Ack.

Ack.

Timeout  sec.

☐ Stop on Nack.

Send

☒ Current. ☐ All.

☐ Next

☐ Enable logging.

Start Stop

SmartHL7® Message Sender - [Untitled - from Clipboard]

Load Copy Paste 1/1 Stats SmartHL7.com Smartie.Solutions About

```

MSH|^~\&||HNA500|||20210701091227||ADT^A04|IMGA71202191227||2.3
EVN|A04|20210701091227|||XKelley^Jason^^^^^^NYSIIS||
PID||IC7191227^^^MRN^MRN^SOARF|IC7191227
^^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||19940216|M||WHITE|123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNC^8560000000^WPNPH^^^^^^456|ENG|M||AIC7191227^^^FIN^FIN NBR|
PV1|1|Outpatient|FM Glassboro^^^FM Glassboro^^Radiology^FM Glassboro|||04407^Stiefel^Gregory^G.^D.O.
^^^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.^D.O.^NPI^NYSIIS^^^National
Provider Identifier|1234567890^CERNER^CERNER^^^^^^NPI^NYSIIS^^^National Provider
Identifier~SYSTEMCERNER^CERNER^CERNER^^^^^^PRN^NYSIIS^^^External Identifier|||||Clinic|AIC7191227
^^^FIN^FIN NBR|Self-Pay|||||FM Glassboro|||||20210701091800|
PV2|||||20210701091800
GT1|1|IC7191227^^^MRN^MR^SOARF|CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNC^8560000000^WPNPH^^^^^^456|19940216|M|Default Guarantor|Self|
IN1|1|3008342^CIGNA^^^CIGNA|3244123|CIGNA HealthCare|Po Box 30010^^Austin^TX^78755^US||8664942111
^WPNPH|||0||20201111000000|||TestPatient^Care^^^^^^Alternate|Self|20010101|123 NEW STREET^APT 6
^FRANKLINVILLE^NJ^08322^US^Mailing~123 NEW STREET^APT 6^FRANKLINVILLE^NJ^08322
^US^Home~testpat@gmail.com|On File|||||Comm|||||F|||||1234567890

```

Loaded

Receiver

Host / IP 10.8.1.24 Port 9500

Bookmark Optional label, eg <HL7 listener #1>

☒ Expect Ack.

Ack.

Timeout 10 sec.

☐ Stop on Nack.

Send

☒ Current. ☐ All.

☐ Next 1

☐ Enable logging.

Start

Stop



SmartHL7® Message Sender - [Untitled - from Clipboard]

Load Copy Paste 1/1 Stats SmartHL7.com Smartie.Solutions About

```

MSH|^~\&||HNA500||20210701091227||ADT^A04|IMGA71202191227||2.3
EVN|A04|20210701091227||^XKelley^Jason^^^^^NYSIIS||
PID||IC7191227^^^MRN^MRN^SOARF|IC7191227
^^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||19940216|M||WHITE|123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNCPI8560000000^WPNPH^^^^^456|ENG|M||AIC7191227^^^FIN^FIN NBR|
PV1|1|Outpatient|FM Glassboro^^^FM Glassboro^^Radiology^FM Glassboro|||04407^Stiefel^Gregory^G.^D.O.
^^^PRN^NYSIIS^^^External Identifier~1649267881^Stiefel^Gregory^G.^D.O.^NPI^NYSIIS^^^National
Provider Identifier|1234567890^CERNER^CERNER^^^^^NPI^NYSIIS^^^National Provider
Identifier~SYSTEMCERNER^CERNER^CERNER^^^^^PRN^NYSIIS^^^External Identifier|||||Clinic|AIC7191227
^^^FIN^FIN NBR|Self-Pay|||||FM Glassboro|||20210701091800|
PV2|||||20210701091800
GT1|1|IC7191227^^^MRN^MR^SOARF|CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNCPI8560000000^WPNPH^^^^^456|19940216|M|Default Guarantor|Self|
IN1|1|3008342^CIGNA^^^CIGNA|3244123|CIGNA HealthCare|Po Box 30010^^Austin^TX^78755^US||8664942111
^WPNPH||0||20201111000000|||TestPatient^Care^^^^^Alternate|Self|20010101|123 NEW STREET^APT 6
^FRANKLINVILLE^NJ^08322^US^Mailing~123 NEW STREET^APT 6^FRANKLINVILLE^NJ^08322
^US^Home~testpat@gmail.com|On File|||||Comm|||||F|||||1234567890
MSH|^~\&||MIRTH||HNA500|20210701133100.719||ACK|20210701133100.719|P|2.3
MSA|AA|IMGA71202191227

```

Ack [0.393 sec]

Receiver: Host / IP: 10.8.1.24 Port: 9500 Bookmark: Optional label, eg <HL7 listener #1> ☒ Expect Ack.

Ack.: Timeout: 10 sec. ☐ Stop on Nack.

Send: ☒ Current. ☐ All. ☐ Next 1 ☐ Enable logging. Start Stop

IMG Covid Result.html x CertifyCare x +

caredemo.certifyglobal.net/dashboarddetails


Inspira medical group FM Glassboro Renjini Lailavathy

Total Appointments 2 Thursday, 1 July 2021

Appointment 2 Search

VISIT CODE	PATIENT NAME	DOB	PHONE NUM...	PROVIDER	QUEUE	AP...
55079	TestPatientOne JulyOne CertifyCov	02/16/1994	(856) 000-0000	GREGORY STIEFEL	1	09:18
14971	Imgttestpatinetone	06/28/2021	(790) 450-2377	GREGORY STIEFEL	2	11:25

Arrived 0 Search

VISIT CODE	PATIENT NAME	DOB	PHONE NUM...	PROVIDER	PROGRESS	QUEUE	AP...
 <p>There are no Arrived Patients for Today.</p>							

IMG Covid Result.html x CertifyCare x Edit patient : testpatientone certi x +

caredemo.certifyglobal.net/patient/patientdetails/577811/1686/109437

Renjini Lallavathy

### Edit Patient - TESTPATIENTONE CERTIFYCOVIDIMG

Personal Information Physician Information Guarantor Information Employment Information Emergency Contact Information

Insurance Information Pharmacy Information Miscellaneous Documents

#### Consent Forms

DOCUMENT NAME	DOCUMENT TYPE	RECORDED
DOCUMENT NAM	ALL	MM DD YYYY

Search

PATIENT NAME	DOB	DOCUMENT NAME	ACCOUNT NUMBER	DOCUMENT TYPE	RECORDED/SIGNED	VIEW DOCS
--------------	-----	---------------	----------------	---------------	-----------------	-----------

SmartHL7® Message Sender - [Untitled - from Clipboard]

Load Copy Paste 1/1 Stats SmartHL7.com Smartie.Solutions About

```
MSH|^~\&|IHN_NJ|FM TomStat|HUB|HUB|20210701091227||ORU^R01|IMGO71202191227||2.3
ZAD|FM TomStat|660 Woodbury-Glassboro Road^Sewell^NJ^08080
PID||IC7191227^^^MRN^MRN^SOARF|IC7191227
^^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^Alternate||19940216|M||WHITE|123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNCPI8560000000^WPNPH^456|ENG|M||AIC7191227^^^FIN^FIN NBR|
PVI|1|Outpatient|FM Glassboro^^^FM Glassboro^^Radiology^FM
Glassboro|||FM Glassboro|||20210701091800|
OBR|1|A01072021001^HNAM_ORDERID|^QCOV2FLUAB||20210701103000|||1760465603^Herman^Gregory^^M.D.
^^^NPI^Personnel^^National Provider Identifier|||20210701103000||C
OBX|1|TX|3545580997^SARS CoV 2-Q||Negative||Not Detected^Not Detected|A||F
NTE|1|Result Comment|This nucleic acid amplification test was developed and its performance
NTE|2|Result Comment|characteristics determined by LabCorp Laboratories. Nucleic acid
NTE|3|Result Comment|amplification tests include RT-PCR and TMA. This test has not been
NTE|4|Result Comment|FDA cleared or approved. This test has been authorized by FDA under
NTE|5|Result Comment|an Emergency Use Authorization (EUA). This test is only authorized
NTE|6|Result Comment|for the duration of time the declaration that circumstances exist
NTE|7|Result Comment|justifying the authorization of the emergency use of in vitro
```

Loaded

Receiver

Host / IP: 10.8.1.24 Port: 9510

Bookmark: Optional label, eg <HL7 listener #1>

☒ Expect Ack.

Ack.

Timeout: 10 sec.

☐ Stop on Nack.

Send

☒ Current. ☐ All.

☐ Next 1

☐ Enable logging.

Start Stop

SmartHL7® Message Sender - [Untitled - from Clipboard]

Load Copy Paste 1/1 Stats SmartHL7.com Smartie.Solutions About

```

MSH|^~\&|IHN_NJ|FM TomStat|HUB|HUB|20210701091227||ORU^R01|IMGO71202191227||2.3
ZAD|FM TomStat|660 Woodbury-Glassboro Road^Sewell^NJ^08080
PID||IC7191227^^^MRN^MRN^SOARF|IC7191227
^^^MRN^MR^SOARF||CertifyCovidIMG^TestPatientOne^JulyOne^^^^Alternate||19940216|M||WHITE|123 Main
Street^Next Lane^New York^NY^XYZ123^US^Home||^testpat@gmail.com~8560000000^PRNPH^Phone~8560000000
^ORNCPI8560000000^WPNPH^^^^^456|ENG|M||AIC7191227^^^FIN^FIN NBR|
PVI|1|Outpatient|FM Glassboro^^^FM Glassboro^^^Radiology^FM
Glassboro|||FM Glassboro|||20210701091800|
OBR|1|A01072021001^HNAME_ORDERID|^QCOV2FLUAB||20210701103000|||1760465603^Herman^Gregory^^^M.D.
^^^NPI^Personnel^^^National Provider Identifier|||20210701103000||C
OBX|1|TX|3545580997^SARS CoV 2-Q||Negative||Not Detected^Not Detected|A||F
NTE|1|Result Comment|This nucleic acid amplification test was developed and its performance
NTE|2|Result Comment|characteristics determined by LabCorp Laboratories. Nucleic acid
NTE|3|Result Comment|amplification tests include RT-PCR and TMA. This test has not been
NTE|4|Result Comment|FDA cleared or approved. This test has been authorized by FDA under
NTE|5|Result Comment|an Emergency Use Authorization (EUA). This test is only authorized
NTE|6|Result Comment|for the duration of time the declaration that circumstances exist
NTE|7|Result Comment|justifying the authorization of the emergency use of in vitro

MSH|^~\&|HUB|HUB|IHN_NJ|FM TomStat|20210701133242.689||ACK|20210701133242.689|P|2.3
MSA|AA|IMGO71202191227

```

Ack [0.511 sec]

Receiver

Host / IP: 10.8.1.24 Port: 9510

Bookmark: Optional label, eg <HL7 listener #1>

☒ Expect Ack.

Ack.

Timeout: 10 sec.

☐ Stop on Nack.

Send

☒ Current. ☐ All.

☐ Next 1

☐ Enable logging.

Start Stop

IMG Covid Result.html CertifyCare Edit patient : testpatientone certi +

caredemo.certifyglobal.net/patient/patientdetails/577811/1686/109437

Renjini Lallavathy

APPOINTMENTS

FORMS

PATIENTS

REPORTS

PAYMENTS

COMMUNICATIONS

Covid Result

PATIENT NAME	ENCOUNTER NO	ACCESSION NO	VIEW	VIEW AUDIT REPORT
TestPatientOne CertifyCovidIMG	AIC7191227	A01072021001		

Save



Browser tabs: IMG Covid Result.html, CertifyCare, Edit patient : testpatientone certi

URL: caredemo.certifyglobal.net/patient/patientdetails/577811/1686/109437

Renjini Lailavathy

**Covid Test Result**

inspira HEALTH  
Department of Pathology and Laboratory Medicine  
FM TomStat  
660 Woodbury-Glassboro Road  
Sewell, NJ 08080

**Covid-19 Test Result**  
Patient: TestPatientOne JulyOne  
CertifyCovidMG  
MRN: IC7191227  
DOB: 02/16/1994  
Collection Date/Time: 07/01/2021 10:30:00

COVID-19 Test Results		
Procedure	Result	Reference Range
SARS-CoV-2-G	Negative	Not Detected

Browser tabs: IMG Covid Result.html, CertifyCare, Edit patient : testpatientone certi

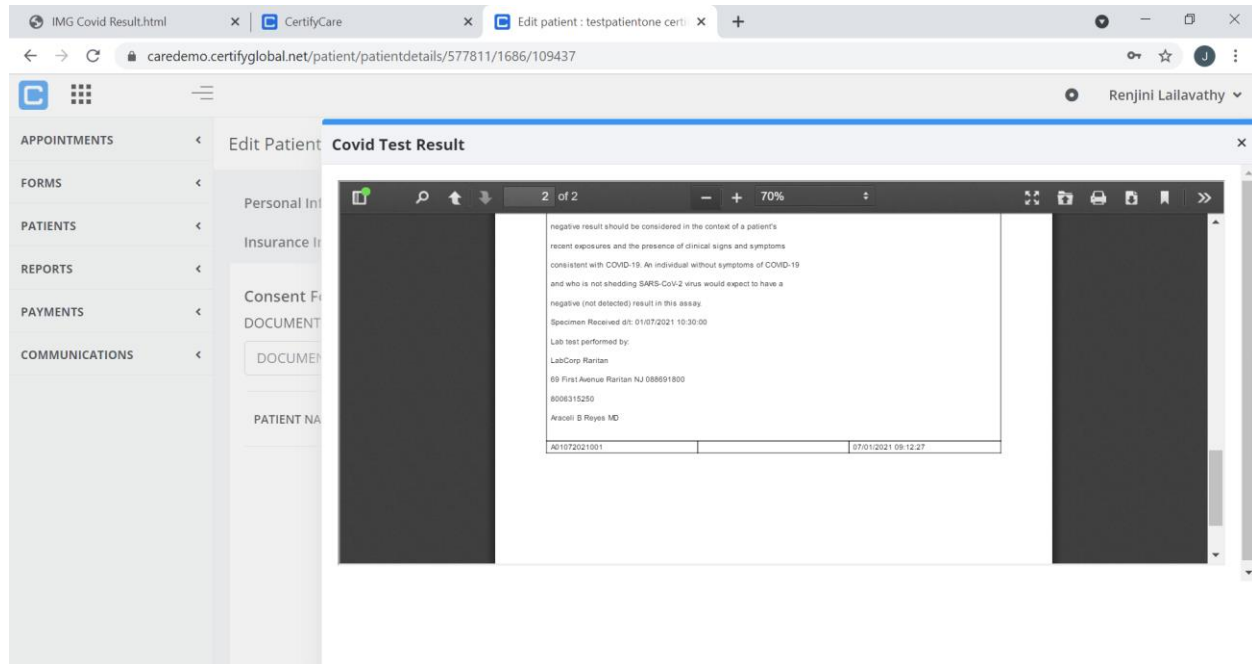
URL: caredemo.certifyglobal.net/patient/patientdetails/577811/1686/109437

Renjini Lailavathy

**Covid Test Result**

Page 1 of 2

**Result Comment:**  
This nucleic acid amplification test was developed and its performance characteristics determined by LabCorp Laboratories. Nucleic acid amplification tests include RT-PCR and TMA. This test has not been FDA cleared or approved. This test has been authorized by FDA under an Emergency Use Authorization (EUA). This test is only authorized for the duration of time the declaration that circumstances exist justifying the authorization of the emergency use of in vitro diagnostic tests for detection of SARS-CoV-2 virus and/or diagnosis of COVID-19 infection under section 564(b)(1) of the Act, 21 U.S.C. 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.  
When diagnostic testing is negative, the possibility of a false



### Drawbacks and further development

- Clean the codes and separate CSS,JS and HTML files.
- Many segments in HL7 which do not change frequently are hardcoded.
- The difference between the admit date/time and discharge date/time JS function is not accurate.
- Auto complete the field values.
- Create the application as desktop app instead of web app.
- Connect to Database to check if value already exist or to validate.
- Send the HL7 directly to TCP when submitted without using the SmartHL7 Tool.
- Create section in the Output Section to generate JSON values to test in environments without Mirth (Dev and QA).

### Existing Modules in the tool.

- AHS
- Inspira IMG
- Inspira UC
- Inspira IMG, UC Covid result testing
- Geisinger
- Geisinger Merge
- UPMC EU Inpatient Multicampus.