

Health and Human Services

Texas Department of State Health Services

Best Practices: Entering COVID-19 Labs in NEDSS

Presented by

Public Health Informatics and Date Exchange Team

Introduction



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Objective:

- To review the steps to enter a positive COVID-19 lab report in NEDSS
- Source of lab reports (excluding ELRs):
 - E-fax and/or fax
 - Mail
 - Email

COVID-19 Lab Report Entry Steps



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The following slides will outline these steps to search and enter lab reports

- Step 1: Conduct patient record search
- Step 2: If no results are found, add new patient
- Step 3: Complete & submit patient demographics
- Step 4: Add new lab report
 - Review samples of the hardcopy labs and their fields
 - Show where data elements from these labs will go in NEDSS

Do NOT Enter these as a Lab Report...



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- Self-Reported test results without an actual lab report
- Reports from schools and/or businesses
 - Line List from schools are NOT lab reports
 - Texas Department of Emergency Management (TDEM) reports BinaxNow test results to us that are collected in schools



Keep in Mind.....

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- Majority of laboratories are sending COVID results electronically
- In-house performed tests and reference labs
 - Some labs will collect then send to another lab
 - Others will perform and report the test
 - Lab facility name can be different in NEDSS form the one on hard copy.
- Some test names do not clearly ID test type (i.e. Antigen, PCR)
 - Google test name to check and review test



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Lab Report Example 1

INFECTION PREVENTION 120 E Harris Avenue SAN ANGELO TX 76903-5904

MRN: 20682121, DOB:
Adm: 12/28/2020, D/C:

Sex: M

12/28/2020 - ED to Hosp-Admission (Current) in Shannon Medical Center Intensive Care Unit (continued)

Clinical Notes (continued)

Electronically signed by: YANELA DUENAS MILIAN, MD 1/23/2021 6:21 PM

Labs

Specimen Informa	ation				
ID	Туре	Source		Collected By	Y
21H-023M0116	Swab	Nasophan	yngeal	Lester Denso	on, RN 01/23/21 1653
COVID-19 (in-hou	se rapid PCR) (Abno	rmal)	Res	ulted: 01/23/2	1 1719, Result status: Final resu
Ordering provider	Kenneth A. Perret II,	MD 01/23/21 1645	Order status: Comp	leted	01/23/21 1653
Filed by: Carmen Longoria, TECH 01/23/21 1719 Resulting lab: SHANNON MEDICAL CENTER LAB Narrative: Positive results are indicative of the presence of SARS-CoV-2 RNA: clinical correlation with patient	Denson, KN	01/25/21 1055			
Narrative:					
Positive results an	e indicative of the pres	sence of SARS-CoV-2 R	NA; clinical correlation	with patient hi	istory and other diagnostic
information is nec	essary to determine pa	atient infection status. P	ositive results do not ru	le out bacteria	al infection or co-infection with
Negative results d	o not preclude SARS-	CoV-2 infection and sho	uld not be used as the	sole basis for	patient management decisions
Negative results n	nust be combined with	clinical observations, pa	tient history, and epide	miological info	ormation.
This test is only for	r use under the Food	and Drug Administration	s Emergency Use Auth	orization.	
		ener anter dan Dit 📼 dit et den searcher der eine solden der			
Acknowledged by	Peggy Creel, RN on	01/23/21 1805			
Components					
Component		Value	Reference Range	Flag	Lab

Patient Search Example 1



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FIRST, search for patient

- Enter first 3 letters of first name AND enter last name for unique names for a more broad search
- Enter full first and last name and/or DOB for common names

		_
Patient Search		-
<u>Search Demo</u>	graphics (By default, search uses 'Starts With'. To search using (Contains', enter % at start of text or use Advanced Search)	
Last Name:		
First Name:		
DOB:		
Current Sex:	×	
Search Ident	ifiers	
Event ID Ty	pe:	
Patient ID	(s):	
	(Separate IDs by commas, semicolons, or spaces)	
	Search Clear Advanced Search	

Existing Patient Record Example 1



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- If the patient is already in the system, their name will appear.
- Click 'Patient ID' hyperlink to open their account.

Home Data Ent	try Open Investigations Reports						ŀ	lelp Logout	
Search Result	ts						User : Kat	therine Bourne	
								New Search	Refine Search
									Add New
	Your Search Criteria: Last Name Starts With	'ful', First Name Starts With 'd	lee', DO	OB Equal '08/22/1992', resu	Ited in 1 possible m	atches. Would you like to <u>re</u>	fine your search or	add a new patient?	
				Results 1 to 1 of 1					
								Remove	All Filters/Sorts
Patient ID	Name	Age/DOB/Sex	~	Address	~	Phone/Email	~	ID	~
	Legal			Home		Home			

****IMPORTANT** to ALWAYS search for patient in multiple ways before adding lab in order to prevent duplicates

Lab Exists in NEDSS: Example 1



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Ref

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This patient already has this lab added to their patient record in NEDSS, so **do not enter** manually.

Lab Reports (1)							
Date Received	Reporting Facility/Provider	Date Collected	Test Results				
0 <u>1/23/2021</u> 9:00 PM E	Reporting Facility: Shannon Medical Center Ordering Provider: KENNETH PERRET II	01/23/2021	SARS-CoV-2 RNA Resp QI NAA+pro Positive Reference Range: (Negative) - (Final	obe:)			
		Facility and Provider Infe	ormation				
How to	confirm it's the		* Reporting Ordering Ordering I	J Facility: Shannon Media J Facility: SHANNON HE 120 E HARRIS SAN ANGELO, 325-658-1511 Provider: KENNETH PEF 120 E Beaureg SAN ANGELO.	cal Center ALTH SERV AVENUE , Texas 7690 RRET II Jard Ave , Texas 7690	/ICE AREA)3-5904)3-5919	
same la		Order Details		,			
 Speci date Toot 	imen collection		* Progr Juri Shared I Lab Rep * Date Received by Publi Pregnanc	am Area: COVID-19 isdiction: Public Health R ndicator: Yes port Date: 01/23/2021 ic Health: 01/23/2021 y Status: Weeks:	Region 9/10		
• iesti	name	Test Results					
 Toct (recult	Collapse Subsections					
 Acces numb 	ssion per/Specimen ID		Orde Ordered Tes Accession Specimen Speci Specimen Collection D Patient Status at Specimen Cc Specimen Cc	red Test: SARS-CoV-2 R st Codes: 94500-6 (LN LC Status: Final Number: 21H-023M0116 Source: Swab men Site: ate/Time: 2021-01-23 16: ollection: n Details: 257261003	RNA Resp QI OINC)/ 5	I NAA+probe	
		Resulted Test					2 (2
9/10/20)21	SARS-Co	V-2 RNA Resp QI Positive	Numeric Result	Units	lext Result	Ref Rang Negative



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Lab Report Example 2

9/10/

Medsal Cente		Medica 500 Odessa	I Center Hospital W. 4TH Street a, TX 79761-5001				
Patient: MRN: FIN: DOB/Age/Sex: Location:	000594031 1201843146 76 years MCH ICU4; 4008; A	Male	Admit: 4/30/2021 Disch: Admitting: Bastidas Pa	alacios,Alexander			
		Infectious D	Disease				
Legend	c=Corrected, @=Abnorma	l, C=Critical, L=Low, H=Hig Laboratory Direc	gh, f=Result Comment, i≃Inte tor: GLIA#	erp Data, *=Performing La	0		
					Lat	oulatory billigton. Other	
		Infect	tious Diseases				
			Collected Date Collected Time Procedure	5/9/2021 17:21 CDT	Units	Reference Range	
		SARS Influe Influe RSV	5-CoV-2 PCR nza A virus PCR nza B virus PCR PCR	Positive ^{C e111 01} Negative ^{O1} Negative ^{O1} Negative ^{O1}	Child	[Negative] [Negative] [Negative]	
		Corre c1:	cted Results SARS-CoV-2 PC Result comment PUI: C050904 Result comment	R modifiec on 5/9/20 added on 5/9/2021	21 18:33 1 18:22 (2 CDT by Nuguid, Wesley ,MT Chemistry CDT by Nuguid, Wesley ,MT Chemistry	
		Resu f1:	It Comments SARS-CoV-2 PC Critical results ca	R lied to JARED PO	NCE CC	CU at 5/9/2021 18:31:54 CDT by WN. Read back and verific	ed? Y
		Order Q1:	SARS-CoV-2 /Flu PUI: C050904	A&B/RSV PCR			
9/10/20)21		NEDS	S COVID-19	Data	a Entry	1

Lab Exists in NEDSS: **Example 2**



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Patient has a lab that looks like the same lab, but reported by DSHS lab. Ordered/collected from Medical Center Hospital.

E Lab Reports (2)												
Date Received	Reporting Facility/Provid	er	Date	Collected	Test Re	<u>sults</u>						
06/01/2021 3:10 PM Feviously Associated to Investigation	Reporting Facility: TEXAS DSHS AUSTIN	apse Subsections	05/09/	/2021	SARS-0 Detecte	CoV-2 RNA X d	XX QI	NAA+probe:				
	- <i>-</i>	acinty and Frovider morma			* Reporti	ng Facility: TEXAS	S DSHS A					
lis lab had all	ΟΓ				Orderii	ng Facility: MEDIC 500 W ODES	EST 4TH	ST 3RD FLOOR				
e same info					Ordering	g Provider: 2261 J Giddin 979-54	IAMES TU gs, Texas	IRMAN RD 78942				
low:	• o	Order Details			* Dro		10					
	al tana				* Ju	urisdiction: Public	Health Re	gion 9/10				
Specimen colle	ction				Shared Lab Re	d Indicator: Yes eport Date: 05/28/	2021					
date				* Date Recei	ived by Pub Pregnar	blic Health: 06/01/2	2021					
						Weeks:						
lest name	Colla	est Results apse Subsections										
Test result		Ordered Test			Ord	dered Test: SARS	coronavir	us 2 RNA [Interpreta	tion] in Unspecified s	pecimen Qualitativ	/e by N/	AA w
					Ordered T	est Codes: 94309 Status: Final	-2 (LN LO	INC)/PCR_CORON	AV_LRN (L LOCAL)			
Accession					Accessio	on Number: KVI210	05337					
number/Specin	nen ID				Spec	cimen Site:						
number/Speem				Specimen Patient Status at	Specimen	Collection:	15-09 05:2	1:00.0				
(Not provided c	on lab 🛛 🗖	Resulted Test			Specim	en Details:						
roport from Mo	dical	Resulted Test		Coded Result / Organism N	Name M	Numeric Result	Units	Text Result	Ref Range From	Ref Range To	Statu	JS
терогі попі ме		Interpretation	us 2 RNA n cimen	Delected (LOCAL)							Final	
Center Hospital)	Qualitative by N probe detection	AA with									

NEDSS COVID-19 Data Entry

9/10/2021

This la

the sa

below:

Spec date

Test



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Lab Report Example 3

SAMPLE ID 873141

ENCOUNTER ID 20084175

PATENT ID 30303

REQUISITION #

Reeves County Hospital District

Room Num: OP

Q

Rice, Robert FNP Pecos Valley Rural Health Clinic 2335 S. Pigman St. Pecos, TX 79772 (432) 447-3551

Reeves County Hospital District

432-447-3551 Ext. 433/434 Fax 432-447-3700 2323 Texas Street Pecos, TX 79772

CLIA# 45D0509176 ²aula Washington, MD MedicalLab.Director AGE 78 SEX M

DATE 12/23/2020 REPORTED 10:04 DRAW DATE 12/23/2020 09:46 DELIVERY 12/23/2020 DATE 09:46

ID-NOW COVID-19

12/23/20 10:04 Relayed critical results to & RB by: ROBERT RICE, PNP called by: CM (ID-NOW COV-19) 12/23/20 10:04 Copy to INFECTION CONTROL & MM TECH.CO Ref. Range/Males ID-NOW COVID-19 A! Positive 12/23/20 09:46 . The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these	12/23/20	10:05		
12/23/20 10:04 Copy to INFECTION CONTROL & MM TECH.CO Ref. Range/Males <u>ID-NOW COVID-19</u> A! Positive 12/23/20 09:46 IIMITATIONS • The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these	12/23/20	10:04	Relayed critical results to & RB by: ROBERT RICE, FNP called by:CM (ID-NOW COV-19)	
TECH.CO Ref. Range/Males ID-NOW COVID-19 A! Positive Negative 12/23/20 09:46 IMITATIONS Negative • The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these Negative	12/23/20	10:04	Copy to INFECTION CONTROL & MM	
ID-NOW COVID-19 A! Positive Negative 12/23/20 09:46 IMITATIONS • The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these Negative	TECH.CO			Ref. Range/Males
12/23/20 09:46 LIMITATIONS • The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these	ID-NOW CO	VID-19	A! Positive	Negative
 The performance of the ID NOW COVID-19 was evaluated using the procedures provided in this product insert only. Modifications to these 	12/23/20	09:46	LIMITATIONS	
procedures provided in this product insert only. Modifications to these			• The performance of the ID NOW COVID-19 was evaluated using the	
			procedures provided in this product insert only. Modifications to these	
procedures may alter the performance of the test.			procedures may alter the performance of the test.	

NEDSS COVID-19 Data Entry

Add New Patient Example 3



- Search results for this example had `0 possible matches':
- Choose 'Add New' in lower right corner to add new patient

Home Data Entry Open Investigations Reports Search Results	Help Logout User : Katherine Bourne
	New Search Refine Search
	Add New
Your Search Criteria: Last Name Starts With 'TestPatient', First Name Starts With 'TestPatie	ent', DOB Equal '01/01/2001', Current Sex Equal 'Male', <mark>resulted in 0 possible matches.</mark> Would you like to <u>refine your search</u> or <u>add a new</u> patient ?
	Remove All Filters/Sorts
Patient ID Name Age/DOB/Sex Nothing found to display. Image: Comparison of the second se	Address Phone/Email ID V
•	Add New



Patient Tab Example 3

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Once the patient is in the system, the Patient Tab will be displayed.

• This tab contains fields to enter the patient's demographic information.

NEDSS Patient Tab

El Basic Demographic Data Collanse Subsections	
General Information	
* Information As of Date:	08/12/2021
Comments:	
El Name Information	DOE DURA
Last Name:	DOE-SMITH
First Name:	JOHN
Middle Name:	
Suffix:	
Other Personal Details	
DOB:	01/01/2001
Current Age:	20 Years
Current Sex:	Male
Birth Sex:	
Is the patient deceased?	
Date of Death:	
Marital Status:	
Address	
Street Address 1:	
Street Address 2:	
City:	
State	Terran
7	
c.p.	
County:	
Census Tract:	
Country:	United States
C Telephone	
Home Phone:	
Work Phone:	
Work Phone Ext:	
Cell Phone:	
Email:	

NEDSS COVID-19 Data Entry

Patient Tab: Required Fields Example 3



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	Submit Cancel Add Extended	d Data
*Date will auto-	populate	
Last Name: TestPatient	1	
First Name: TestPatient		
Middle Name	1	
Suffix		
Current Age: 20 Years		
Current Sex: Male		
Birth Sex:		
e patient deceased?		
Marital Status		
Street Address 1:		
Street Address 2:		
City		
State: Texas		
County		
Canaua Tract]	
Country: United States		
Barriston -	-	
Work Phone:		
Work Phone Ext		
Cell Phone:	1	
Email:		
Ethnicity:		
	*Date will auto-	Submit Cancel Add Extende *Date will auto-populate

You can press the 'tab' key on your keyboard to move between fields if you prefer.

COVID-19 Required fields:

- Last Name
- First Name
- DOB
- Current Sex
- Is the patient deceased?
- Date of Death
- Street Address
- City
- State
- Zip
- County
- Cell Phone
- Ethnicity
- Race

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NEDSS COVID-19 Data Entry

Patient Tab: Submit Example 3



- Although only certain fields are required for data entry, DSHS recommends entering all patient data that is available.
- Once you have completed entering the data, click Submit at the bottom of the page.

Other	
Retused to answer Not Asked	
Unknown	
Identification	
Type Assigning Authority ID Value	
No Data has been entered.	
Туре:	
Assigning Authority:	
ID Value:	
Add ID	D
Submit Cancel Add F	Extended Data

Patient File: Add New Event Example 3



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- Patient File will open
- Click on 'Events' tab to add a new event.

Home Data Entry Open Inve	stigations Reports			Help Logout	1
Patient File				User : Katherine Bourne	
					Print
TestPatient TestPatient M	Male 01/01/2001 (20 Years)			Patient ID:	78114962
Summary Events	Demographics				
				Expand A	All Collapse All
Patient Summary					
Go to: Patient Summary O on In	vestigations Documents Requiring Re	view			
Patient Summary					Back To Top
Address (Home)	Cell	No ID Info	Available	Race Native Hawaiian or Other Pacific Islan	der
Austin, Texas 78758	333-333-3333			Ethnicity	dei
Travis County				Not Hispanic or Latino	
Open Investigations (0)					Back To Top
Documents Requiring Reviews 100 -	w (0)				Back To Top
		Previous Next			
Summary Events	Demographics				



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Events Tab for Example 3

Home Data Entry Open Investigations Reports	Help Logout	Logout	
Patient File	User : Katherine Bourne		
		Print	
Bob TestPatient Male 01/01/2001 (20 Years)	Patient ID:	78463008	
Summary Events Demographics			
Go to: Investigations Lab Reports Morbidity Reports Vaccinations I	reatments Documents Contact Records	All Collapse A	
Patient Events History			
Investigations (0)	Add New	W Back To Top	
Lab Reports (0)	Add Net	Back To Top	
Morbidity Reports (0)	Add Net	Back To Top	
Vaccinations (0)	Add Net	Back To Top	
Treatments (0)		Back To Top	
Documents (0)		Back To Top	
Contact Records (0)		Back To Top	
	Previous_ Next		
Summary Events Demographics			

In the Events Tab, the following records can be added by selecting **Add New**:

- InvestigationLab report
- Morbidity report
- Vaccinations
- •Treatments
- •Documents
- •Contact records

Add New Lab Report for Example 3



If an Electronic Lab Report is not already present in the Patient File, you can add one manually:

- Select a condition
- Choose 'Novel Coronavirus 2019' from the drop-down menu
- Click Submit key

Home Data Entry Open Investigations Reports Help Logout				
Select Condition	User: Katherine Bourne			
	Submit Cancel			
Please select a condition:				
Novel Coronavirus 2019				
	Sub tit Cancel			

Add New Lab Report Example 3 Continued



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Add Lab Report				
Bob TestPatient Male 01/01/2001 (20	Years) Patient ID: 78463008			
Address: 1100 W 49th St, Austin, TX 78758	SSN:			
	* Indicates a Required Field			
Order Information				
Facility and Provider Information				
* Reporting	FacIlity: Search - OR - Quick Code Lookup			
Reporting Facility S	alected:			
Ordering Ordering Facility S	Facility: Search - OR - Quick Code Lookup			
Same as Reporting	Facility:			
Ordering P	rovider: Search - OR - Quick Code Lookup			
Ordering Provider S	elected:			
Order Details				
* Progra	In Area:			
* Juris	adiction: Austin HHS Division (City of)			
Shared Ir	idicator: 🗸			
Lab Rep	ST Date:			
* Date Received by Public	Health: 08/18/2021			
Pregnancy	/ Status:			
	Weeks:			
- Test Results				
Ordered Test				
Ordered Test	red Test			
Accession	Number			
Specimen	Source:			
Specin	nen Site-			
Specimen Collection Da				
Dationt Status at Specimer Co				
Patient status at specimen Co				
Resulted Test	Innanism Numeric Ref Banne Ref Banne			
Resulted Test Name	Result Units Text Result From To Status Result Comments			
No Data has been entered.				
* Resulted Test:	Search Clear			
Coded Result:				
Numeric Result:				
Units:				
Γ				
Text Result:				
	ß			

 Please refer to the COVID-19 Data Entry Guide (DEG) for further description of each variable, found: DSHS NBS Data Entry Guide

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COVID-19 Required fields:

- Reporting Facility
- Program Area •
- Jurisdiction
- Date Received by Public Health
- Pregnancy Status if female •
- Specimen Source
- Specimen Collection Date/Time ٠
- Resulted Test
- Test Result

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Add Lab Report Example 3



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Add New Investigation for Example 3



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Move onto creating a new COVID-19 case investigation:

- Select a condition
- Choose 'Novel Coronavirus 2019' from the drop-down menu
- Click Submit key

Home Data Entry Open Investigations Reports Help Logout				
Select Condition		User: Katherine Bourne		
		Submit Cancel		
Please select a condition:				
Novel Coronavirus 2019	~			
		Submit Cancel		





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COVID-19 Public Health Resource Page: https://dshs.texas.gov/coronavirus/public-health.aspx

Disease Reporting & Case Definition Resources:

- DSHS COVID-19 Variant Case Guidance (PDF, V.1.0, released 3/17/2021)
- DSHS COVID-19 Vaccine Breakthrough Case Guidance (PDF, V.2.0, released 6/10/2021)
- DSHS COVID-19 Reinfection Guidance (PDF, V.1.0, released 3/12/2021)
- DSHS Suspect COVID-19 Case Reporting Guidance (PDF, V.1.0, released 12/11/2020)
- <u>Determining Texas Residency for Immigrants, Refugees, and Detainees</u> (PDF, V.1.0, released 5/26/2020)
- DSHS Case Definition and Investigation Prioritization Guidance (PDF, V.2.0, released 11/01/2020)
- DSHS Epi Case Criteria Guide (PDF, V.2.0, released 11/01/2020)
- DSHS NBS Data Entry Guide (PDF, V.3.0, released 11/24/2020)

Contact Info



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For questions or concerns regarding NEDSS, please contact: <u>NEDSS@DSHS.Texas.Gov</u>

For questions or concerns regarding COVID-19, please contact: <u>EAIDU-coronavirus@dshs.texas.gov</u>