Centers for Disease Control and Prevention (CDC)

National Center for Environmental Health (NCEH)

Division of Laboratory Sciences (DLS)

NEWBORN SCREENING AND MOLECULAR BIOLOGY BRANCH (NSMBB)

NEWBORN SCREENING QUALITY ASSURANCE PROGRAM (NSQAP) PORTAL

UDOT PROFICIENCY TESTING PANEL USER GUIDE

January 2022

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1. UDOT Introduction

The UDOT proficiency testing challenge is a unique component of the Newborn Screening Quality Assurance Program (NSQAP) utilizing a panel of dried blood spot (DBS) specimens that enter the testing scheme in a manner similar to actual newborn screening specimens. For each specimen, participating laboratories must assay all analytes on their chosen test panel. This user guide describes to steps to enter UDOT results. Only abnormal analytes should be reported for the corresponding specimen number.

2. UDOT Program Navigation

The UDOT Program section of the NSQAP Portal can be accessed by clicking **'UDOT'** from the menu bar. Remember to sign in first.



2.1 UDOT Information Page

1. Clicking the **'UDOT'** button at the top of the page on the toolbar will take you to the home page and resource for all UDOT PT related activities.



2. The UDOT Information homepage contains several icons that are used to navigate to the various UDOT PT sections within the NSQAP Portal.

	UDOT Infor	mation		
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5	UDOT Data Entry Instructions	UDOT Analyte Selection	UDOT Data Entry	UDOT Data Entry Review

- 1. **UDOT Data Entry Instructions** Downloadable instructions for completing UDOT PT data entry in the NSQAP Portal.
- 2. **UDOT Analyte Selection** Page for setting up the portal for UDOT PT data entry.
- 3. **UDOT Data Entry** Page for entering UDOT PT program data.
- 4. **UDOT Data Entry Review** Page for reviewing UDOT PT program data.
- 5. **UDOT Submission** Page for submitting UDOT PT program data.

2.2 UDOT Analyte Selection

1. Click on the 'UDOT Analyte Selection' button in the 'UDOT Information' page.



2. Click the **'UDOT'** program hyperlink to begin analyte selection.

UDOT List	
Name 🕇	Created On
UDOT	12/2/2021 10:32 PM
*-Required Field.	

3. Use the large '+' buttons on the right side of the grid to expand analytes under each category.

Home > UDOT Analyte Selection	
UDOT Analyte Selection	
 Choose Analytes for which your laboratory would like to be evaluated by checking the appropriate box under the Evaluated Analyte group. Enter the Method for those analytes in the columns provided. If there is no cutoff, leave the Cutoff Value field blank. 	
Endocrine and Other Analytes	+
Amino Acids	+
Acylcarnitines	+
ALD	+
Save	
*-Required Field.	

4. Once expanded, the Analyte and Method Selection page will appear for all reportable analytes within the UDOT program. Select the analytes for which data will be reported. Click the check box next to the analyte(s). Repeat the same steps for all categories (Endocrine and Other Analytes, Amino Acids, Acylcarnitines, ALD).

UDOT Analyte Selection			
 Choose Analytes for which your laboratory would like to be evaluated by checking the appropriate box under the Evaluated Analyte group. Enter the Method for those analytes in the columns provided. If there is no cutoff, leave the Cutoff Value field blank. 			
Endocrine and Othe	r Analytes	_	
	Method	Cutoff (ua/dL serum)	
	Q		
Thyroid-Stimulating Hormone	Method	Cutoff (ull1/ml serum)	
(TSH)	Q		
□ 47= Uudenmeneeteeree (470UD)	Mathad		
	Q		
Biotinidase Deficiency (BIOT)	Method	Cutoff (see method)	
□ Galactose-1-Phosphate Uridyltransferase Deficiency (GALT)	Method	Cutoff (see method)	
☐ Immunoreactive Trypsinogen (IRT)	Method	Cutoff (ng/mL blood)	
		_	
Amino Acids		+	
Acylcarnitines		+	
ALD		Ť	
Save			
requirea Hela.			

Note: Method will be required once an analyte is selected by checking the box to the left of the analyte. A red asterisk (*) will appear next to the Method after its corresponding analyte is selected.

5. Select the method to be used for each analyte tested. Click the **'Magnifying Glass'** icon on the **'Method'** field for that specific analyte.

UDOT Analyte Selection			
 Choose Analytes for which your laboratory would like to be evaluated by checking the appropriate box under the Evaluated Analyte group. Enter the Method for those analytes in the columns provided. If there is no cutoff, leave the Cutoff Value field blank. 			
Endocrine and Other	⁻ Analytes	_	
Thyroxine (T4)	Method	Cutoff (µg/dL serum)	
	٩		
Thyroid-Stimulating Hormone	Method	Cutoff (µIU/mL serum)	
(TSH)	Q		
Π 17α-Hydroxyprogesterone (170HP)	Method	Cutoff (ng/mL serum)	
	٩		
Total Galactose(TGal)	Method	Cutoff (mg/dL blood)	
	٩		
Biotinidase Deficiency (BIOT)	Method	Cutoff (see method)	
	٩		
Galactose-1-Phosphate	Method	Cutoff (see method)	
onayinaninense sendency (uncry	٩		
□ Immunoreactive Trypsinogen (IRT)	Method	Cutoff (ng/mL blood)	
	۹		
Amino Acids		+	
Acylcarnitines		+	
		+	
		T	
Save			
*-Required Field.			

6. A new window will appear listing all methods for the analyte. To select a method, click on the method, and the row will highlight with a check mark on the left side. Click the **'Select'** button at the bottom of the window to select the method for the analyte.

Lookup i	records	×
	Search	٩
~	Method Name 🕇	
	AutoDELFIA® Neonatal T4 PerkinElmer	
	DELFIA® Neonatal T4 PerkinElmer	
✓	GSP® T4 Neonatal PerkinElmer	
	NeoMAP® T4 Interscientifica	_
	Other	
	Select Cancel Remove value	ue

7. If a method has been selected for an individual analyte, it will appear in the **'Method'** field for the selected analyte only.

Endocrine and Other Analytes			
Thyroxine (T4)	Method * GSP ® T4 Neonatal X Q	Cutoff (µg/dL serum)	
 Thyroid-Stimulating Hormone (TSH) 	Method Q	Cutoff (µIU/mL serum)	
Π 17α-Hydroxyprogesterone (170HP)	Method Q	Cutoff (ng/mL serum)	

8. If the method for testing is not shown in the provided list, click the **'Other'** option, then the **'Select'** button.

Lookup records			×
		Search	Q
~	Method Name 🕇		
	AutoDELFIA® Neonatal T4 PerkinElmer		
	DELFIA® Neonatal T4 PerkinElmer		
	GSP⊗ T4 Neonatal PerkinElmer		
	NeoMAP® T4 Interscientifica		
	Other		
		Select Cancel Remove	value

9. If 'Other' method is selected, type the name of the 'Other' Method in the field.

Endocrine and Other Analytes			
Thyroxine (T4)	Method *	Cutoff (µg/dL serum)	Other *
 Thyroid-Stimulating Hormone (TSH) 	Method Q	Cutoff (µIU/mL serum)	
Π 17α-Hydroxyprogesterone (170HP)	Method Q	Cutoff (ng/mL serum)	

10. Enter the cutoff value for each analyte in the 'Cutoff' field.

UDOT Analyte Selection			
 Choose Analytes for which your laboratory would like to be evaluated by checking the appropriate box under the Evaluated Analyte group. Enter the Method for those analytes in the columns provided. If there is no cutoff, leave the Cutoff Value field blank. 			
Endocrine and Other	⁻ Analytes		
Thyroxine (T4)	Method	Cutoff (µg/dL serum)	
 Thyroid-Stimulating Hormone (TSH) 	Method	Cutoff (µIV/mL serum)	
Π 17α-Hydroxyprogesterone (170HP)	Method Q	Cutoff (ng/mL serum)	
Total Galactose(TGal)	Method Q	Cutoff (mg/dL blood)	
Biotinidase Deficiency (BIOT)	Method Q	Cutoff (see method)	
 Galactose-1-Phosphate Uridyltransferase Deficiency (GALT) 	Method Q	Cutoff (see method)	
□ Immunoreactive Trypsinogen (IRT)	Method Q	Cutoff (ng/mL blood)	
Amino Acids		+	
Acylcarnitines		+	
ALD		+	
Save			

11. Complete program setup for data entry by clicking the **'Save'** button at the bottom of the setup page.

UDOT Analyte Selection			
 Choose Analytes for which your laboratory would like to be evaluated by checking the appropriate box under the Evaluated Analyte group. Enter the Method for those analytes in the columns provided. If there is no cutoff, leave the Cutoff Value field blank. 			
Endocrine and Other	r Analvtes	_	
Thyroxine (T4)	Method	Cutoff (µg/dL serum)	
	٩		
Thyroid-Stimulating Hormone (754)	Method	Cutoff (µIU/mL serum)	
(130)	٩		
17α-Hydroxyprogesterone (170HP)	Method	Cutoff (ng/mL serum)	
	٩		
Total Galactose(TGal)	Method	Cutoff (mg/dL blood)	
	L L		
Biotinidase Deficiency (BIOT)	Method	Cutoff (see method)	
 Galactose-1-Phosphate Uridyltransferase Deficiency (GALT) 	Method	Cutoff (see method)	
Immunoreactive Trypsinogen (IRT)	Method	Cutoff (ng/mL blood)	
	٩		
Amino Acids		+	
Acylcarnitines		+	
ALD		+	
		•	
Save			
*-Required Field.			

Note: If the **'Save'** button is not selected, data will not be retained. Upon clicking **'Save'**, user will be directed to the **'UDOT Data Entry'** page.

3. UDOT Data Entry for Abnormal Analytes

3.1 UDOT Data Entry

1. To enter data for the UDOT program, click the **'UDOT'** button at the top of the page on the toolbar and click the **'UDOT Data Entry'** option. Only report analytes that are outside of normal limits. More than one analyte may be reported for a specimen.

UDOT Inform	nation		
li			
UDOT Data Entry Instructions	UDOT Analyte Selection	UDOT Data Entry	UDOT Data Entry Review
UDOT Submission			

2. The specimen list page will appear.

*-Required Field.

Home > UDOT Specimens	
UDOT Specimens	
Select the specimen below to report "outside normal limits" results for analytes your laboratory evaluat	tes Created On
20222016001	11/16/2021 10:19 AM
20222016002	11/16/2021 10:19 AM
20222016003	11/16/2021 10:19 AM
20222016004	11/16/2021 10:19 AM
20222016005	11/16/2021 10:19 AM
20222016006	11/16/2021 10:19 AM
20222016007	11/16/2021 10:20 AM
20222016008	11/16/2021 10:20 AM
20222016009	11/16/2021 10:20 AM
20222016010	11/16/2021 10:20 AM

3. To navigate to the specimen data entry page, click the **'Specimen Number'** hyperlink.

UDOT Specimens					
Select the specir	men below to report "outside normal limits" results for analytes your laboratory evaluates				
Name 🕇	Created On				
20222016001	11/16/2021 10:19 AM				
20222016002	11/16/2021 10:19 AM				
20222016003	11/16/2021 10:19 AM				
20222016004	11/16/2021 10:19 AM				

4. Add analytes to each specimen by clicking the 'Add Analyte' button.

UDOT Da	ta Entry				
Quantitative analytes, ente Qualitative analytes, select For <lod, "<lod"="" in<="" select="" th=""><th>r numerical results "Abnormal" in the Other Res n the Other Result field</th><th>ult field</th><th></th><th></th><th></th></lod,>	r numerical results "Abnormal" in the Other Res n the Other Result field	ult field			
Specimen Number * 20222016007					Add Analyte
Specimen ↑	Analyte	Result	Comments	Created On	
There are no record	s to display.				

5. A pop-up will appear, click OK. Do not enter an analyte more than once for the same specimen number. Duplicate analytes will not be accepted.



6. A new window will appear to select an analyte. Search for analyte by clicking on the magnifying glass.

Specimen#	Analyte	
_		Q
Result	<lod< th=""><th></th></lod<>	
	No	~
Comments		
		//
Save		

7. Click on the analyte and the row will highlight with a check mark on the left side. Click the **'Select'** button at the bottom of the window to select the analyte.

Lookup records			×
		Searc	ch Q
✓ Name			Created On
170HP			11/8/2021 11:21 AM
ARG			11/8/2021 11:21 AM
BIOT			11/8/2021 11:21 AM
C0(L)			11/8/2021 11:21 AM
C10			11/8/2021 11:22 AM
C10:1			11/8/2021 11:22 AM
C10:2			11/8/2021 11:22 AM
			11/0/2021 11/22 414
< 1 2	3 4	>	
•			
		Select	Cancel Remove value

8. The selected analyte will now populate in the **'Analyte'** field. Enter either a quantitative result into the **'Result'** field or use the drop-down field to choose **'<LOD'**.

Specimen#	Analyte		
_	C10	×	Q
Result	<lod No</lod 		~
Comments			
			//
Save			

9. Click the **'Save'** button at the bottom of the page to save results.

Specimen#	Analyte		
	C10	×	٩
Result	<lod< td=""><td></td><td></td></lod<>		
	No		
Comments			
Delete?			
● No ○ Yes			
ve			

10. When the analyte has been saved, the specimen list page will update with the analyte record and when it was last saved.

Specimen 🕇	Analyte	LOD	Result	Comments	Created On	
20222016001	C6	No	1.24		12/29/2021 4:10 PM	~
20222016001	C8	No	1.57		12/29/2021 4:35 PM	~
20222016001	C10	No	1.10		1/3/2022 7:33 PM	~
20222016001	C10:1	No	0.98		1/4/2022 12:05 PM	•

11. To edit or delete a record, click on the specimen number of the analyte to edit.

Specimen#	Analyte		
_	C10	×	Q
Result	<lod< td=""><td></td><td></td></lod<>		
	No		~
Comments			
			,
Delete? ● No ○ Yes			
Save			

Note: Once **'Yes'** is selected for the Delete Option and the **'Save'** button is clicked, the analyte will be permanently deleted from the specimen number.

12. To return to the UDOT Specimen List Page to add/edit analytes for other specimens, click on the **'Return to UDOT Specimen List Page'** hyperlink above **'Specimen Number'**



4. UDOT Data Entry Review and Submission

4.1 Data Entry Review

 Click the 'UDOT' button at the top of the page on the toolbar and click the 'UDOT Data Entry Review' option.

UDOT Inform	nation		
i			Ŕ
UDOT Data Entry Instructions	UDOT Analyte Selection	UDOT Data Entry	UDOT Data Entry Review

2. The **'Summary of Reported UDOT Specimens'** will appear in an un-editable table. The summary can be downloaded to a MS Excel spreadsheet by clicking the **'Download'** button.

Summary of Reported UDOT Specimens

Return to UDOT Specimen List Page						
				Search		oad
Specimen 🕇	Analyte	LOD	Result	Comments	Created On	
20222016001	C6	No	1.24		12/29/2021 4:10 PM	
20222016001	C8	No	1.57		12/29/2021 4:35 PM	
20222016001	C10	No	1.10		1/3/2022 7:33 PM	
20222016001	C10:1	No	0.98		1/4/2022 12:05 PM	
20222016002	BIOT	Yes		Abnormal	1/5/2022 9:48 AM	

Note: Click on the **'Return to UDOT Specimen List Page'** hyperlink to return to the UDOT Data Entry page to make changes.

4.2 Data Submission

1. Click on the **'UDOT'** button at the top of the page on the toolbar and click on the **'UDOT Submission'** option.

UDOT Information









UDOT Data Entry Instructions

UDOT Analyte Selection

UDOT Data Entry

	_	_	
UDOI	Data	Entry	Review



2. To submit data for the program, click on the **'Submit'** button at the bottom of the page.

UDOT Submission
MPORTANT: By clicking Submit, you are submitting all of your UDOT data for the current event which will lock all records for editing. No changes can be made after this action.
Submit

3. Click the **'Ok'** button on the submission prompt.

Submit
I attest that Proficiency Testing specimens were tested in the same manner as patient specimens. Note: By clicking Submit, you are submitting all of your UDOT data for the current event which will lock all records for editing. No changes can be made after this action.
Ok Cancel

4. The user will receive an email from NSQAPDMT stating that the UDOT results have been submitted and they are no longer able to edit or submit additional UDOT results for the event.

Note: After submission, the UDOT Specimens page will show 'There are no records to display.'

UDOT Specimens
Select the specimen below to report "outside normal limits" results for analytes your laboratory evaluates Name
There are no records to display.
*-Required Field.