

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**

HBPT USER GUIDE

July 2026

Table of Contents

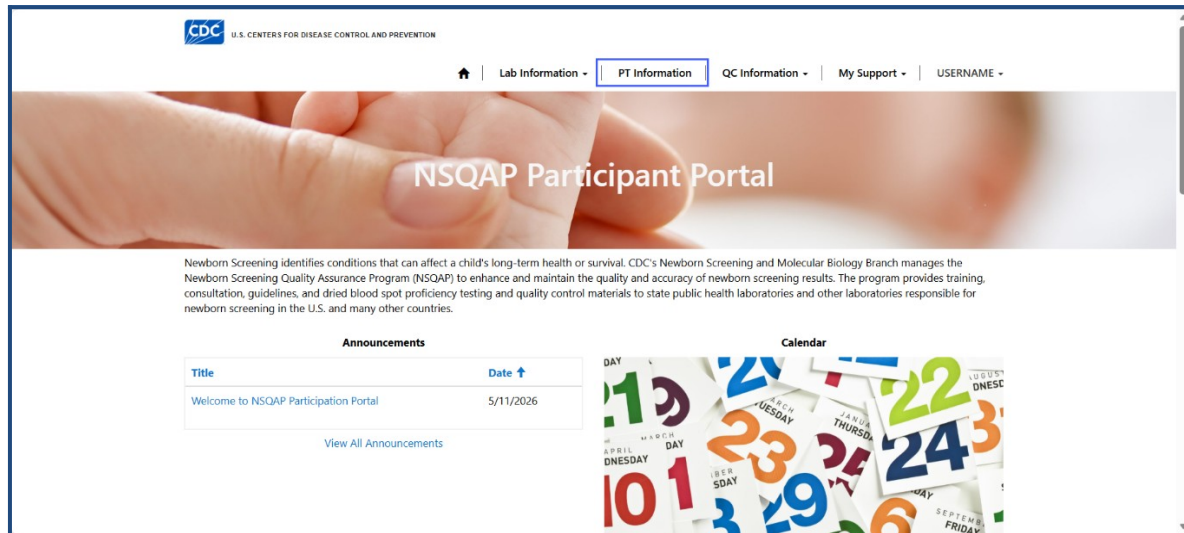
1. HbPT Program Entry Page.....	2
1.1 Navigation.....	2
1.2 Method Information.....	5
1.3 Results Entry.....	8
1.4 Save.....	13
2. HbPT Review & Submit Page.....	15
2.1 Navigation.....	15
2.2 Review.....	17
2.3 Submit.....	19
2.4 Save Data – PDF Format.....	21

1. HbPT Program Entry Page

1.1 Navigation

To enter and save HbPT data, navigate to the HbPT program entry page. Access the page from the 'Hb Entry' option on the Disease Specific PT landing page.

1. Click 'PT Information' from the upper toolbar.



2. Click 'Disease Specific PT' from the PT Information page.



3. Click 'Hb' to navigate to the entry page.

ALD ENTRY		ALD REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
ALD		ALD		Yes
CAH ENTRY		CAH REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
CAH		CAH		
HB ENTRY		HB REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
Hb		Hb		
HIV Entry		HIV REVIEW/SUBMIT		
Name ↑	Saved by	Name ↑	Submitted By	isSubmitted
HIV		HIV		No
TOXO Entry		TOXO REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
TOXO		TOXO		No

4. Enter HbPT method information and data.

Home > Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Method Information

Primary Method *

Specimen Number Secondary Method Tertiary Method Quaternary Method

20213012001

Specimen Number Secondary Method Tertiary Method Quaternary Method

20213012002

Specimen Number Secondary Method Tertiary Method Quaternary Method

20213012003

Specimen Number Secondary Method Tertiary Method Quaternary Method

20213012004

Specimen Number Secondary Method Tertiary Method Quaternary Method

20213012005

Data Entry Instructions

1. Select the phenotype (i.e. FS, FAS, FSC, etc.) for each specimen based on your laboratory's testing algorithm.
2. If "Other" is selected, specify the phenotype in the open text field.
3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number Presumptive Phenotype * Clinical Assessment *

20213012001

Specimen Number Presumptive Phenotype * Clinical Assessment *

20213012002

Specimen Number Presumptive Phenotype * Clinical Assessment *

20213012003

Specimen Number Presumptive Phenotype * Clinical Assessment *

20213012004

Specimen Number Presumptive Phenotype * Clinical Assessment *

20213012005

Comments

Save

1.2 Method Information

Navigate to the page titled 'Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)' to view the HbPT method information reporting section. Navigation details can be found in section 1.1.

1. Enter a primary method. Click on the magnifying glass to view the methods list and click 'Select'.

Home > Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Method Information

Primary Method *

Specimen Number 20213012001

Secondary Method

Tertiary Method

Quaternary Method

Specimen Number 20213012002

Secondary Method

Tertiary Method

Quaternary Method

Lookup records

Search

Method Name ↑

- ☒ Bio-Rad Screening HPLC
- ☐ Electrophoresis - Cellulose Acetate
- ☐ Electrophoresis - Citrate Agar
- ☐ Extended Gradient HPLC
- ☐ FIA-MS/MS
- ☐ Isoelectric focusing
- ☐ Monoclonal antibody methods
- ☐ Other

Select Cancel Remove value

- If 'Other' is selected, a text box will appear. You are required to specify a name and source.

Home > Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)

Method Information

Primary Method *

Other

Primary Method Other *

Lookup records

Search

- ☐ Electrophoresis - Citrate Agar
- ☐ Extended Gradient HPLC
- ☐ FIA-MS/MS
- ☐ Isoelectric focusing
- ☐ Monoclonal antibody methods
- ☒ Other
- ☐ PCR amplification of DNA
- ☐ Primus Ultra 2 HPLC

Select Cancel Remove value

- Enter a secondary, tertiary, and quaternary method for each specimen number if applicable.

Method Information

Primary Method *

Other

Primary Method Other *

Specimen Number	Secondary Method	Tertiary Method	Quaternary Method
20213012001			
20213012002			
20213012003			
20213012004			
20213012005			

- If 'Other' is selected, a text box will appear. You are required to specify a name and source.

Lookup records

Search

- ☐ Electrophoresis - Citrate Agar
- ☐ Extended Gradient HPLC
- ☐ FIA-MS/MS
- ☐ Isoelectric focusing
- ☐ Monoclonal antibody methods
- ☒ Other
- ☐ PCR amplification of DNA
- ☐ Primus Ultra 2 HPLC

Select Cancel Remove value

Specimen Number 20213012001	Secondary Method Other x Q Other-Specify * 	Tertiary Method Other x Q Other-Specify * 	Quaternary Method Other x Q Other-Specify *
Specimen Number 20213012002	Secondary Method Q	Tertiary Method Q	Quaternary Method Q
Specimen Number 20213012003	Secondary Method Q	Tertiary Method Q	Quaternary Method Q
Specimen Number 20213012004	Secondary Method Q	Tertiary Method Q	Quaternary Method Q
Specimen Number 20213012005	Secondary Method Q	Tertiary Method Q	Quaternary Method Q

1.3 Results Entry

Navigate to the page titled 'Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)' to enter HbPT presumptive phenotypes and clinical assessments. Navigation details can be found in section 1.1.

Data Entry Instructions

1. Select the phenotype (i.e. FS, FAS, FSC, etc.) for each specimen based on your laboratory's testing algorithm.
2. If "Other" is selected, specify the phenotype in the open text field.
3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number	Presumptive Phenotype *	Clinical Assessment *
20213012001		
20213012002		
20213012003		
20213012004		
20213012005		

Comments

1. Review the HbPT specific data entry instructions.

Data Entry Instructions

1. Select the phenotype (i.e. FS, FAS, FSC, etc.) for each specimen based on your laboratory's testing algorithm.
2. If "Other" is selected, specify the phenotype in the open text field.
3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number	Presumptive Phenotype *	Clinical Assessment *
20213012001		

- Choose a presumptive phenotype for each of the five specimens in the designated field by clicking the magnifying glass.

Data Entry		
Specimen Number 20213012001	Presumptive Phenotype * 	Clinical Assessment *
Specimen Number 20213012002	Presumptive Phenotype * 	Clinical Assessment *
Specimen Number 20213012003	Presumptive Phenotype * 	Clinical Assessment *
Specimen Number 20213012004	Presumptive Phenotype * 	Clinical Assessment *
Specimen Number 20213012005	Presumptive Phenotype * 	Clinical Assessment *

- Choose a phenotype from the search box then click 'Select'.

3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry		
Specimen Number 20213012001	Presumptive Phenotype * FAC x Q	Clinical Assessment *
Specimen Number 20213012002	Presumptive Phenotype * FA x Q	Clinical Assessment *

Lookup records

☒ Name ↑

☐ F
☐ FA
☐ EA - Bart's
☒ FAC
☐ FAS
☐ FAV
☐ FC
☐ FCA

4. If 'Other' is selected, a text box will appear. You are required to specify.

Lookup records

Search

✓ Name ↑

☐ FSA

☐ FSC

☐ FSS

☒ Other

< 1 2 >

Select Cancel Remove value

3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number 20213012001	Presumptive Phenotype * Other	Clinical Assessment *
Specimen Number 20213012002	Presumptive Phenotype * FA	Clinical Assessment *

5. Choose a clinical assessment for each of the five specimens in the designated field by clicking the magnifying glass.

Data Entry

Specimen Number 20213012001	Presumptive Phenotype *	Clinical Assessment *
Specimen Number 20213012002	Presumptive Phenotype *	Clinical Assessment *
Specimen Number 20213012003	Presumptive Phenotype *	Clinical Assessment *
Specimen Number 20213012004	Presumptive Phenotype *	Clinical Assessment *
Specimen Number 20213012005	Presumptive Phenotype *	Clinical Assessment *

6. Choose a clinical assessment from the search box then click 'Select'.

3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number	Presumptive Phenotype *	Clinical Assessment *
20213012001	FAC	Hemoglobin C Trait
20213012002	FA	Normal - No abno

Lookup records

Search

- ☐ Alpha Thalassemia Silent Carrier
- ☐ Beta Thalassemia Major
- ☐ Clinical Assessment not listed
- ☒ Hemoglobin C Trait
- ☐ Hemoglobin CC Disease or Hemoglobin C/Beta Zero Thalassemia (HbC/β⁰ Disease)
- ☐ Hemoglobin E/Beta Plus Thalassemia (HbE/β⁺ Disease)
- ☐ Hemoglobin FE or Hemoglobin E/Beta Zero Thalassemia (HbEE or HbE/β⁰ Disease)
- ☐ Hemoglobin S/Eta plus Thalassemia (HbSβ⁺ Disease)

< 1 2 >

Select Cancel Remove value

7. If 'Other' is selected, a text box will appear. You are required to specify.

Lookup records

Search

- ☒ Name ↑
- ☐ Hemoglobin SC disease
- ☐ Hemoglobin V (variant)
- ☐ Normal - No abnormal Hb found
- ☒ Other
- ☐ Sickle cell anemia (HbSS or HbSβ⁰ Thalassemia)
- ☐ Sickle Cell Carrier/Trait
- ☐ Unsatisfactory sample

< 1 2 >

Select Cancel Remove value

2. If "Other" is selected, specify the phenotype in the open text field.
3. Use the letter "V" to represent unidentified hemoglobin variants.
4. Describe unusual phenotypes or other relevant information in the comments section.

Data Entry

Specimen Number 20213012001	Presumptive Phenotype * FAC	Clinical Assessment * Other
Specimen Number 20213012002	Presumptive Phenotype * FA	Clinical Assessment * Normal - No abno

8. If needed, enter optional comments in the comment box.

Specimen Number 20213012004	Presumptive Phenotype * FSA	Clinical Assessment * Hemoglobin S/Bet
Specimen Number 20213012005	Presumptive Phenotype * FAC	Clinical Assessment * Hemoglobin C Trai

Comments

1.4 Save

1. Save HbPT specimen results by clicking the **'Save'** button located at the bottom of the page.

NOTE: All information & data must be saved at the same time. Data cannot be partially saved.

The screenshot shows a form with two rows of specimen data. Each row contains a 'Specimen Number' field, a 'Presumptive Phenotype' dropdown menu, and a 'Clinical Assessment' dropdown menu. The first row has '20213012004', 'FSA', and 'Hemoglobin S/Bet'. The second row has '20213012005', 'FAC', and 'Hemoglobin C Trai'. Below these fields is a large 'Comments' text area. At the bottom left of the form is a blue 'Save' button.

2. If you attempt to save the form without entering **all required fields** you will receive an error message. Complete the missing fields and click 'Save' again.

The screenshot shows the top of the HbPT form with a breadcrumb trail: 'Home > Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)'. The main heading is 'Sickle Cell and Other Hemoglobinopathies Proficiency Testing Program (HbPT)'. Below this is a red error message box that reads: 'The form could not be submitted for the following reasons: Presumptive Phenotype is a required field. Clinical Assessment is a required field.' Below the error message is a section titled 'Method Information' which contains a 'Primary Method' dropdown menu with 'Bio-Rad Screening HPLC' selected. At the bottom of the form are four fields: 'Specimen Number', 'Secondary Method', 'Tertiary Method', and 'Quaternary Method'.

3. After you have successfully saved your data and information, you will be redirected to the review and submit page.

NOTE: At this point your data has only been **saved**. You must navigate to the HbPT review and submit page to submit your data. See section 2 for additional details.

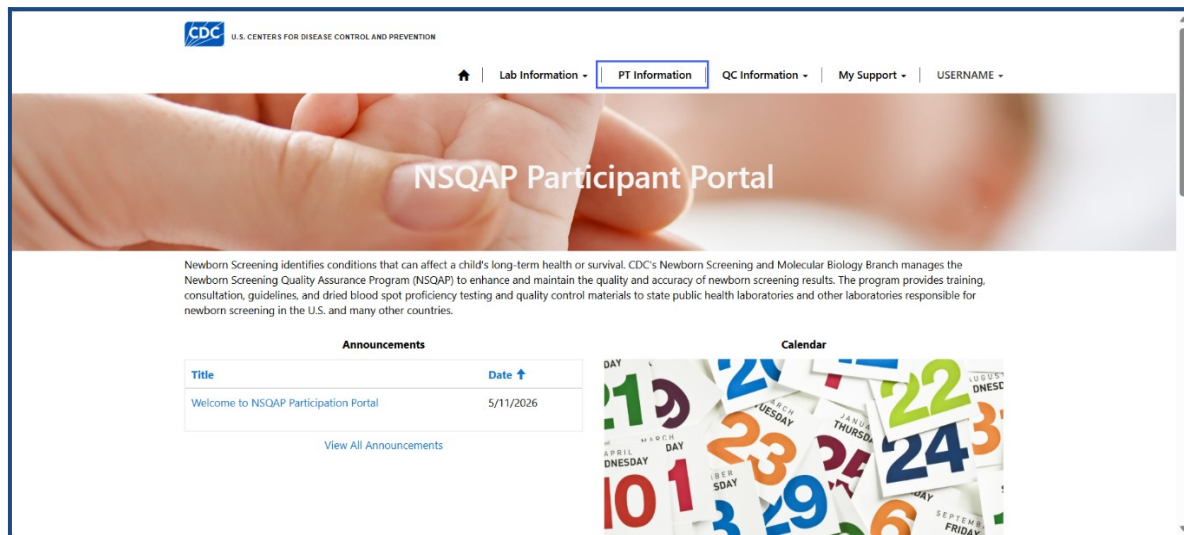
NOTE: This page can be saved and re-saved as many times as needed, but each new save will overwrite the previous save(s).

2. HbPT Review & Submit Page

2.1 Navigation

Review and submit HbPT specimen data after method information and results have been entered and saved (see section 1). Navigate to the HbPT program Review and Submit page.

1. Click **'PT Information'** from the upper toolbar.



2. Click **'Disease Specific PT'** from the PT Information page.



3. Click 'Hb' to navigate to the review and submit page.

ALD ENTRY		ALD REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
ALD		ALD		Yes

CAH ENTRY		CAH REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
CAH		CAH		

HB ENTRY		HB REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
Hb		Hb		

HIV Entry		HIV REVIEW/SUBMIT		
Name ↑	Saved by	Name ↑	Submitted By	isSubmitted
HIV		HIV		No

TOXO Entry		TOXO REVIEW/SUBMIT		
Name ↑	Saved By	Name ↑	Submitted By	isSubmitted
TOXO		TOXO		No

2.2 Review

1. Navigate to the 'HbPT Review/Submit' page to review HbPT method information and results in a read-only format.

Home > HbPT Review/Submit

HbPT-Review/Submit

Method Information

Primary Method *	Primary Method Other
Geo-Rad Screening HPLC	—

Specimen 1

Specimen Number	Secondary Method	Other Specify
26213012001	—	—
Specimen Number	Secondary Method	Other Specify
—	—	—
Specimen Number	Secondary Method	Other Specify
—	—	—
Specimen Number	Secondary Method	Other Specify
—	—	—

Specimen 2

Specimen Number	Secondary Method	Other Specify
26213012002	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—

Specimen 3

Specimen Number	Secondary Method	Other Specify
26213012003	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—

Specimen 4

Specimen Number	Secondary Method	Other Specify
26213012004	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—

Specimen 5

Specimen Number	Secondary Method	Other Specify
26213012005	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—
Specimen Number <td>Secondary Method</td> <td>Other Specify</td>	Secondary Method	Other Specify
—	—	—

Data Entry

Specimen Number	Presumptive Phenotype *	Clinical Assessment *
26213012001	PAC	Hemoglobin C trait
	Other Specify	Other Specify
26213012002	PA	Normal - No abnormal Hb found
	Other Specify	Other Specify
26213012003	Hb	Sickle cell anemia (HbS) or HbSC (Thalassemia)
	Other Specify	Other Specify
26213012004	PA	Hemoglobin A/alpha plus Thalassemia (HbA2+ Thalassemia)
	Other Specify	Other Specify
26213012005	PAC	Hemoglobin C trait
	Other Specify	Other Specify
Comments	—	

After you click submit your submission will be locked and cannot be changed. Navigate to the HbPT Entry Page to Make Edit

[Submit](#)

- If edits are necessary, navigate back to the Hb entry page and make changes as described in section 1 or click the link **'Navigate to the Hb Entry Page to Make Edits'**.

Specimen Number	Presumptive Phenotype	Clinical Assessment
20213012005	FAC	Hemoglobin C Trait
	Other-Specify —	Other-Specify —
Comments —		

After you click submit your submission will be locked and cannot be changed. [Navigate to the HbPT Entry Page to Make Edits](#)

[Submit](#)

- After reviewing, submit your results by clicking the 'Submit' button. See section 2.3 for additional details.

Specimen Number	Presumptive Phenotype *	Clinical Assessment *
20213012005	FAC	Hemoglobin C Trait
	Other-Specify —	Other-Specify —
Comments —		

After you click submit your submission will be locked and cannot be changed. [Navigate to the HbPT Entry Page to Make Edits](#)

[Submit](#)

2.3 Submit

1. Navigate to the 'HbPT Review/Submit' page to submit HbPT method information and results.

Home > HbPT-Review/Submit

HbPT-Review/Submit

Method Information

Primary Method * Bio-Rad Screening HPLC	Primary Method Other —
Specimen Number 20213012001	
Secondary Method —	Other-Specify —
Tertiary Method —	Other-Specify —

2. After reviewing the HbPT review and submit page, submit results by clicking the 'Submit' button located at the bottom of the page.

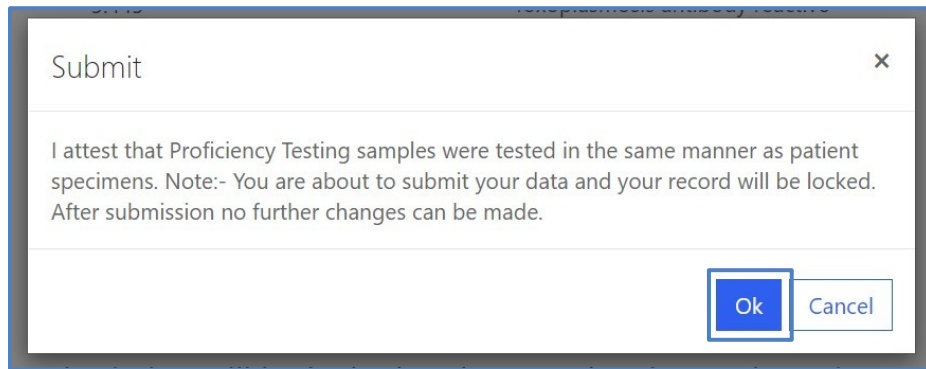
Specimen Number 20213012005	Presumptive Phenotype * FAC Other-Specify —	Clinical Assessment * Hemoglobin C Trait Other-Specify —
Comments —		

After you click submit your submission will be locked and cannot be changed. [Navigate to the HbPT Entry Page to Make Edits](#)

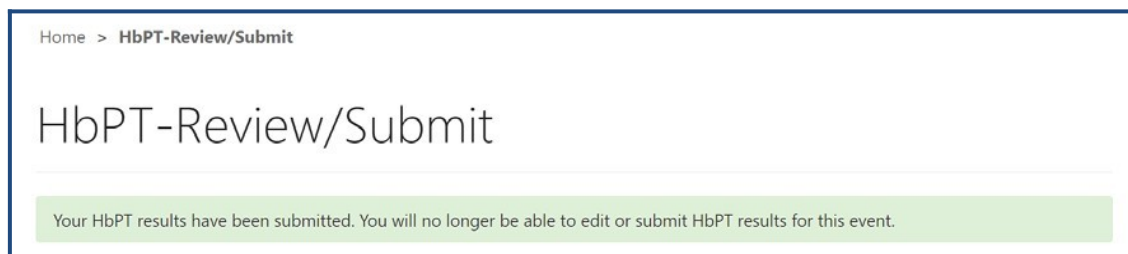
Submit

3. You will be prompted to confirm that you are ready to submit. Click '**Ok**' to confirm and submit your HbPT results.

NOTE: You are only allowed to submit your results **ONCE**. You must review and ensure your entered information and results are accurate **BEFORE** submitting.



4. You will be re-directed back to the HbPT review and submission confirmation page after you successfully submit.



5. The HbPT data entry page cannot be accessed after submission. You can view your submitted data in a read-only format by accessing the review and submit page (see sections 2.1 and 2.2).

2.4 Save Data – PDF Format

Submitted data can be saved in a PDF format by using the ‘Save a PDF’ function included in your web browser.

Note: The location and appearance of this functionality will vary depending on the web browser being used.

1. Navigate to the review and submit page as described in section 2.1.

The screenshot displays a web application interface for reviewing and submitting data. It is organized into two columns of tables. The left column contains 'ENTRY' tables, and the right column contains 'REVIEW/SUBMIT' tables. Each table has columns for 'Name', 'Submitted By', and 'isSubmitted'.

ALD ENTRY			ALD REVIEW/SUBMIT		
Name	Saved By		Name	Submitted By	isSubmitted
ALD			ALD		Yes

CAH ENTRY			CAH REVIEW/SUBMIT		
Name	Saved By		Name	Submitted By	isSubmitted
CAH			CAH		

HB ENTRY			HB REVIEW/SUBMIT		
Name	Saved By		Name	Submitted By	isSubmitted
HB			HB		

HIV Entry			HIV REVIEW/SUBMIT		
Name	Saved by		Name	Submitted By	isSubmitted
HIV			HIV		No

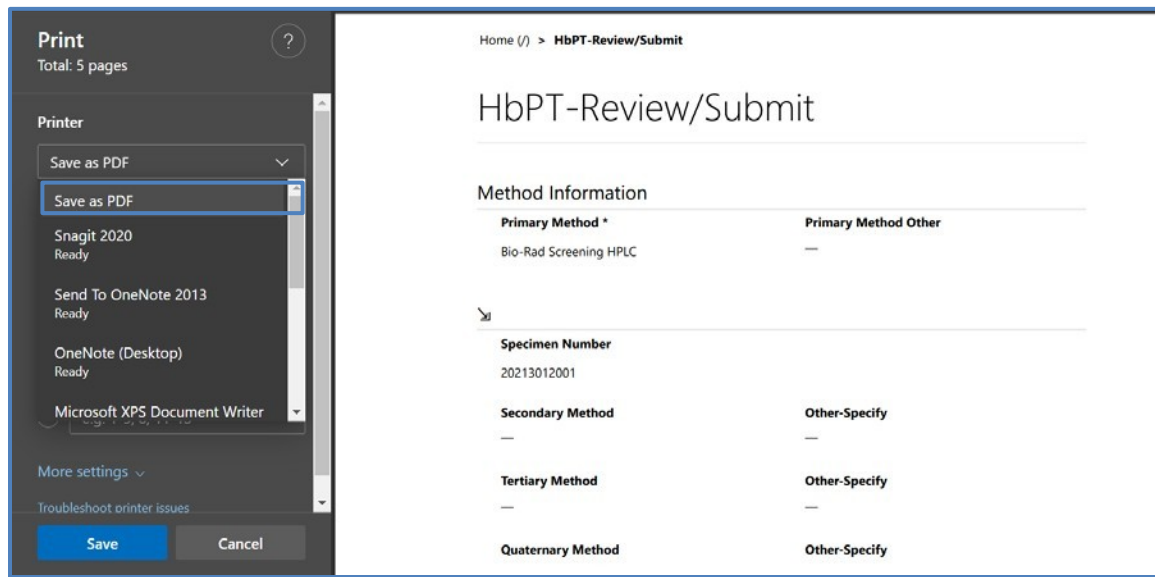
TOXO Entry			TOXO REVIEW/SUBMIT		
Name	Saved By		Name	Submitted By	isSubmitted
TOXO			TOXO		No

2. Locate the “Print” function on your web browser.

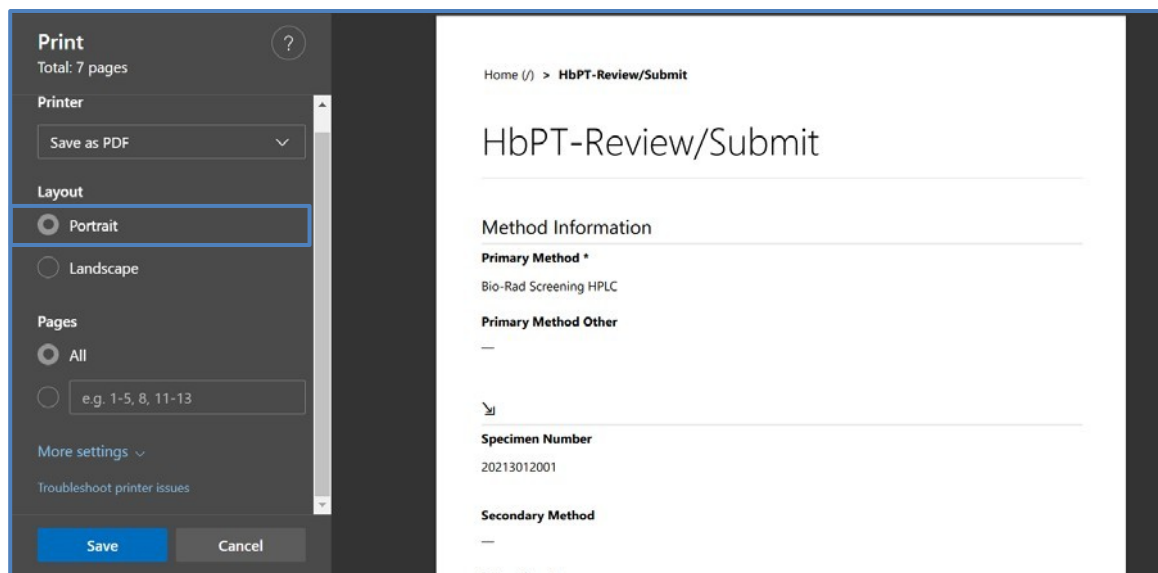
The screenshot shows the 'HbPT-Review/Submit' page in a web browser. The page title is 'HbPT-Review/Submit'. Below the title, there is a 'Method Information' section with a table. The table has two columns: 'Primary Method *' and 'Primary Method Other'. The 'Primary Method *' column contains 'Bio-Rad Screening HPLC'. The 'Primary Method Other' column is empty. Below this, there is a 'Specimen Number' field with the value '20213012001'. Below that, there is a 'Secondary Method' field with a dropdown arrow. Below that, there is a 'Tertiary Method' field with a dropdown arrow. On the right side of the page, a browser print menu is open, showing various options. The 'Print' option is highlighted with a blue box. The print menu also shows keyboard shortcuts for each option.

Method Information	
Primary Method *	Primary Method Other
Bio-Rad Screening HPLC	—
Specimen Number	
20213012001	
Secondary Method	Other-Specify
—	—
Tertiary Method	Other-Specify
—	—

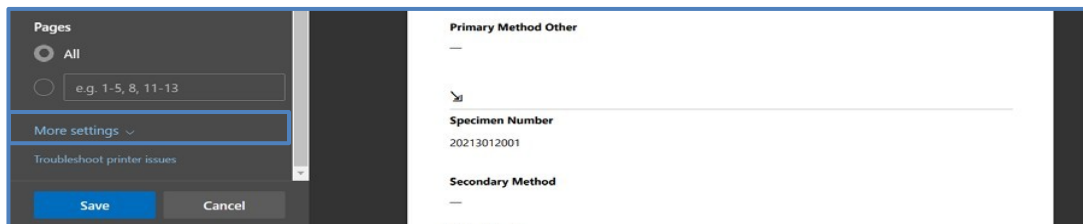
3. Select 'Save as PDF'.



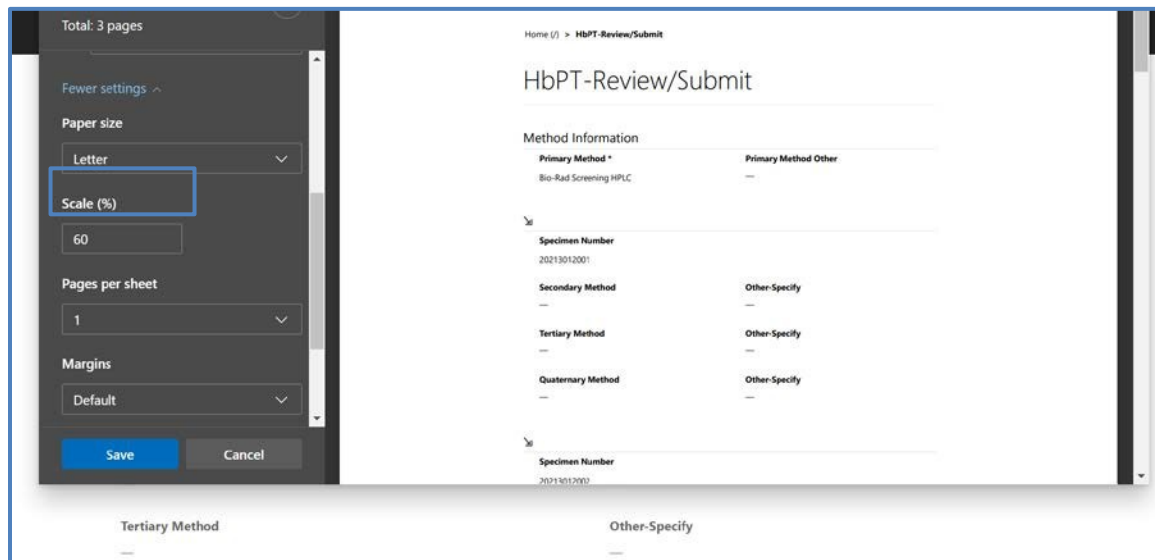
4. Select 'Portrait' as the layout choice.



5. Select 'More Settings'.



6. Adjust the scale percentage to 60%.



7. Select 'Save' to save the pdf file to your local drive's folder of choice.

