

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**

CAHPT USER GUIDE

September 2023

Table of Contents

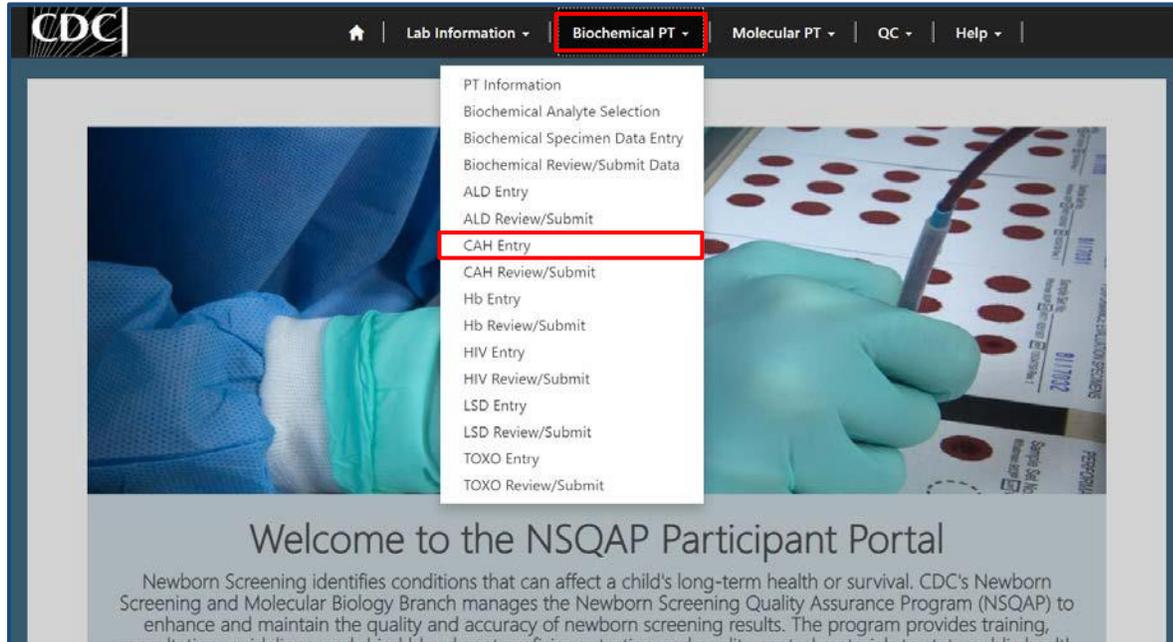
1. CAHPT Program Entry Page	2
1.1 Navigation	2
1.2 Method Information	4
1.3 Results Entry	5
1.4 Save	7
1.5 Reset Form	9
2. CAHPT Review & Submit Page	10
2.1 Navigation	10
2.2 Review.....	11
2.3 Submit.....	13
2.4 Save Data – Pdf Format.....	15

1. CAHPT Program Entry Page

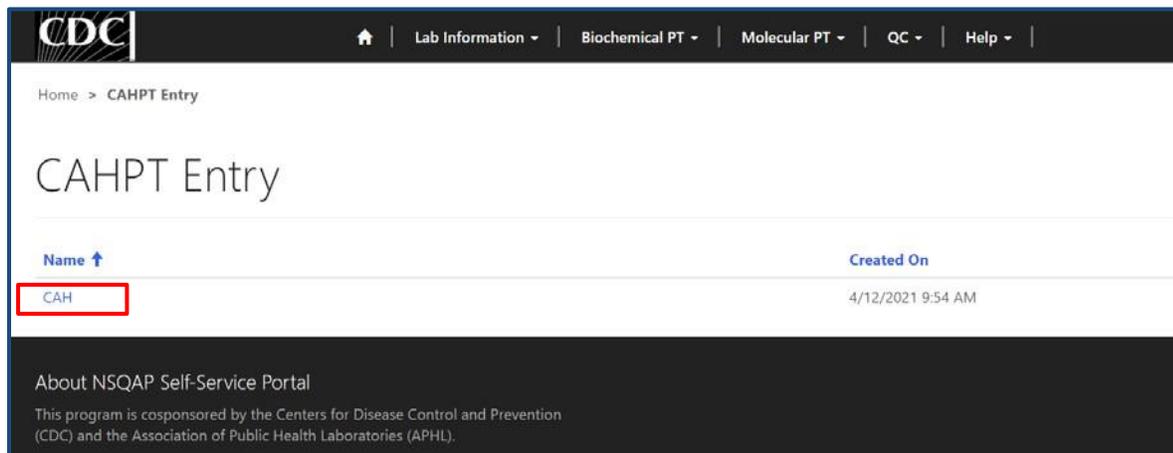
1.1 Navigation

To enter and save CAHPT data, navigate to the CAHPT program entry page. Access the page from the 'CAH Entry' option on the Biochemical PT drop-down menu.

1. Click 'Biochemical PT' then 'CAH Entry' from the drop-down menu.



2. Click 'CAH' to navigate to the entry page.



3. Enter CAHPT method information and data.


Home | Lab Information | Biochemical PT | Molecular PT | QC | Help

Home > Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)

Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)

Laboratories must use the algorithm (17OHP+4AD)/CORT to determine the Clinical Ratio for each specimen. If another ratio or algorithm is used to evaluate specimens, your assessment may not agree with CDC's expected clinical assessment. Materials also include 11D and 21D, however, these analytes are for information only and cannot be used to evaluate specimens.

Unit of measure: ng/mL (Serum)

17-hydroxyprogesterone (17OHP) Conversion factor from nM to ng/mL: Multiply by 0.66

4-androstenedione (4AD) Conversion factor from nM to ng/mL: Multiply by 0.57

Cortisol (CORT) Conversion factor from nM to ng/mL: Multiply by 0.72

11-deoxycortisol (11D) Conversion factor from nM to ng/mL: Multiply by 0.69

21-deoxycortisol (21D) Conversion factor from nM to ng/mL: Multiply by 0.69

LC-MS/MS Clinical Ratio Cutoff:

If results are <LOD or not reported, leave the results field blank

Specimen Number	17OHP	4AD	CORT	11D	21D	Clinical Ratio	Clinical Assessment *
20213010001	<input type="text"/>						
20213010002	<input type="text"/>						
20213010003	<input type="text"/>						
20213010004	<input type="text"/>						
20213010005	<input type="text"/>						

Comments

SAVE
RESET FORM

About NSQAP Self-Service Portal

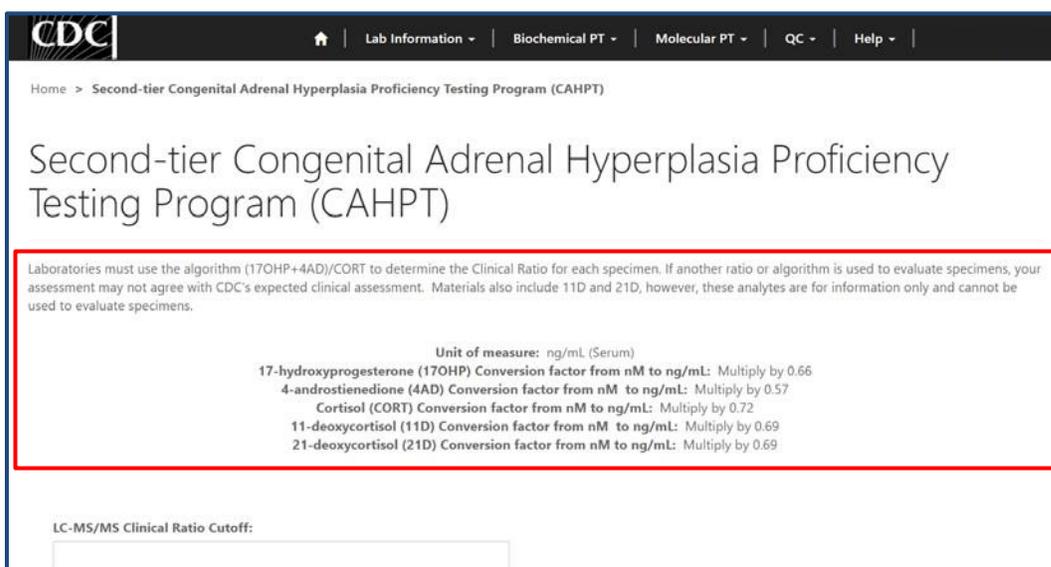
This program is cosponsored by the Centers for Disease Control and Prevention (CDC) and the Association of Public Health Laboratories (APHL).

1.2 Method Information

Navigate to the page titled 'Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)' to view method related instructions and report a clinical ratio cutoff (optional). Navigation details can be found in section 1.1.

Laboratories must use the algorithm (17OHP+4AD)/CORT to determine the Clinical Ratio for each specimen. If another ratio or algorithm is used to evaluate specimens, your assessment may not agree with CDC's expected clinical assessment. Materials also include 11D and 21D, however, these analytes are for information only and cannot be used to evaluate specimens.

1. Review the method information instructions for unit of measure and conversion factor guidance.



The screenshot shows the CDC website interface for the Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT). The page title is "Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)". Below the title, there is a red-bordered box containing the following text:

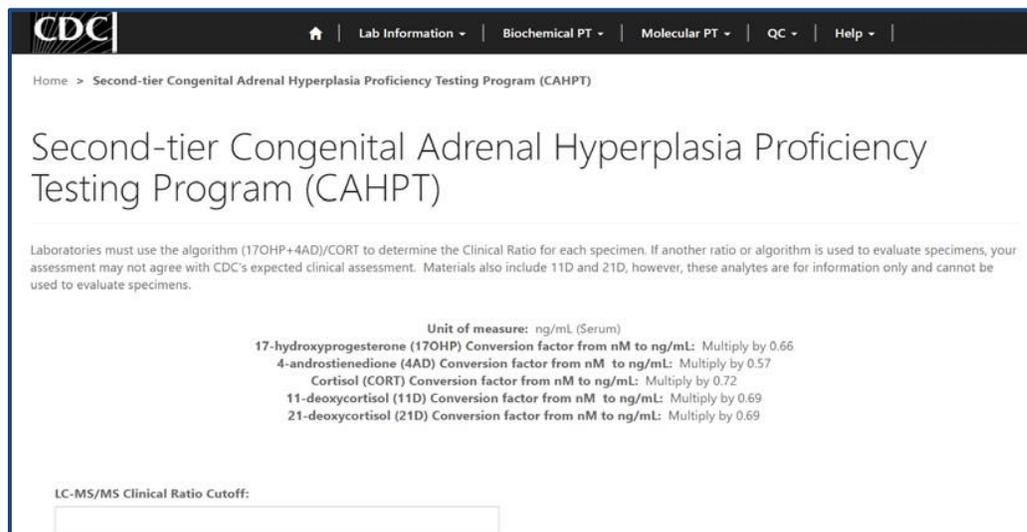
Laboratories must use the algorithm (17OHP+4AD)/CORT to determine the Clinical Ratio for each specimen. If another ratio or algorithm is used to evaluate specimens, your assessment may not agree with CDC's expected clinical assessment. Materials also include 11D and 21D, however, these analytes are for information only and cannot be used to evaluate specimens.

Unit of measure: ng/mL (Serum)

- 17-hydroxyprogesterone (17OHP) Conversion factor from nM to ng/mL: Multiply by 0.66
- 4-androstenedione (4AD) Conversion factor from nM to ng/mL: Multiply by 0.57
- Cortisol (CORT) Conversion factor from nM to ng/mL: Multiply by 0.72
- 11-deoxycortisol (11D) Conversion factor from nM to ng/mL: Multiply by 0.69
- 21-deoxycortisol (21D) Conversion factor from nM to ng/mL: Multiply by 0.69

Below the red box, there is a label "LC-MS/MS Clinical Ratio Cutoff:" followed by an empty text input field.

2. Enter a LC-MS/MS clinical ratio cutoff value in the designed open text field (optional).



This screenshot is identical to the one above, showing the CDC CAHPT page. The red-bordered box containing the instructions and conversion factors is present. Below the red box, the "LC-MS/MS Clinical Ratio Cutoff:" label is visible, and the text input field is now filled with a numerical value, which is not clearly legible but appears to be a decimal value.

1.3 Results Entry

Navigate to the page titled ‘Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)’ to enter CAHPT results, clinical ratios, and clinical assessments. Navigation details can be found in section 1.1.

If results are <LOD or not reported, leave the results field blank

Specimen Number 20213010001	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>
Specimen Number 20213010002	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>
Specimen Number 20213010003	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>
Specimen Number 20213010004	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>
Specimen Number 20213010005	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

1. Enter a value for 17OHP, 4AD, CORT, 11D, and/or 21D in the designed open-text fields per specimen (optional).

If results are <LOD or not reported, leave the results field blank

Specimen Number 20213010001	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>
Specimen Number 20213010002	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

2. Enter a value for clinical ratio in the designed open-text field per specimen (optional).

If results are <LOD or not reported, leave the results field blank

Specimen Number 20213010001	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

Specimen Number 20213010002	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

3. Choose a clinical assessment for each of the five specimens by clicking the drop-down arrow.

If results are <LOD or not reported, leave the results field blank

Specimen Number 20213010001	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

Specimen Number 20213010002	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

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

Specimen Number 20213010005	17OHP <input type="text"/>	4AD <input type="text"/>	CORT <input type="text"/>
11D <input type="text"/>	21D <input type="text"/>	Clinical Ratio <input type="text"/>	Clinical Assessment * <input type="text"/>

Comments

SAVE RESET FORM

1.4 Save

1. Save CAHPT 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.

Specimen Number: 20213010005

17OHP:

4AD:

CORT:

11D:

21D:

Clinical Ratio:

Clinical Assessment:

Comments:

SAVE RESET FORM

About NSQAP Self-Service Portal

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.

CDC

Home > Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)

Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)

Laboratories must use the algorithm (17OHP+4AD)/CORT to determine the Clinical Ratio for each specimen. If another ratio or algorithm is used to evaluate specimens, your assessment may not agree with CDC's expected clinical assessment. Materials also include 11D and 21D, however, these analytes are for information only and cannot be used to evaluate specimens.

Unit of measure: ng/mL (Serum)

17-hydroxyprogesterone (17OHP) Conversion factor from nM to ng/mL: Multiply by 0.66

4-androstenedione (4AD) Conversion factor from nM to ng/mL: Multiply by 0.57

Cortisol (CORT) Conversion factor from nM to ng/mL: Multiply by 0.72

11-deoxycortisol (11D) Conversion factor from nM to ng/mL: Multiply by 0.69

21-deoxycortisol (21D) Conversion factor from nM to ng/mL: Multiply by 0.69

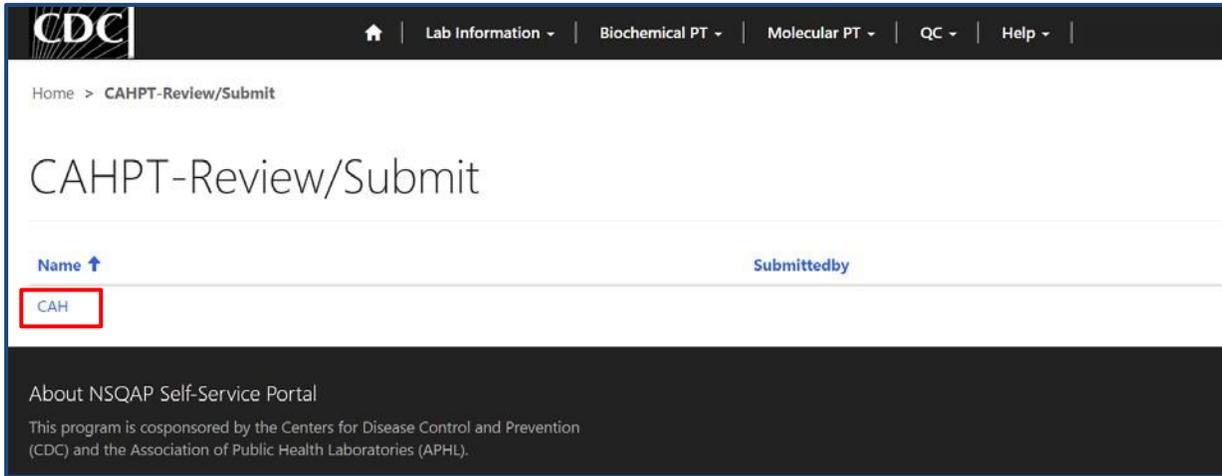
i The form could not be submitted for the following reasons:
Clinical Assessment is a required field.

LC-MS/MS Clinical Ratio Cutoff:

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 CAHPT review and submit page to submit your data. See section 2 for additional details.

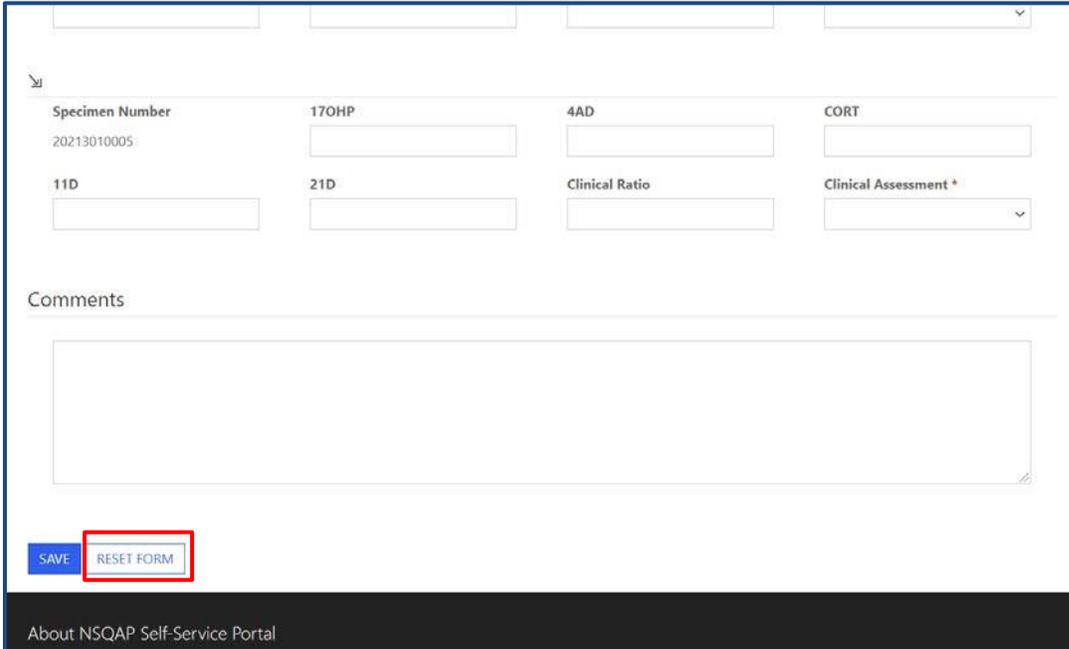
NOTE: This page can be saved and re-saved as many times as needed, but each new save will overwrite the previous save(s).



1.5 Reset Form

If needed, the 'Second-tier Congenital Adrenal Hyperplasia Proficiency Testing Program (CAHPT)' portal page can be reset.

1. Scroll to the bottom of the page and click the 'Reset Form' button.



The screenshot shows a form with the following fields:

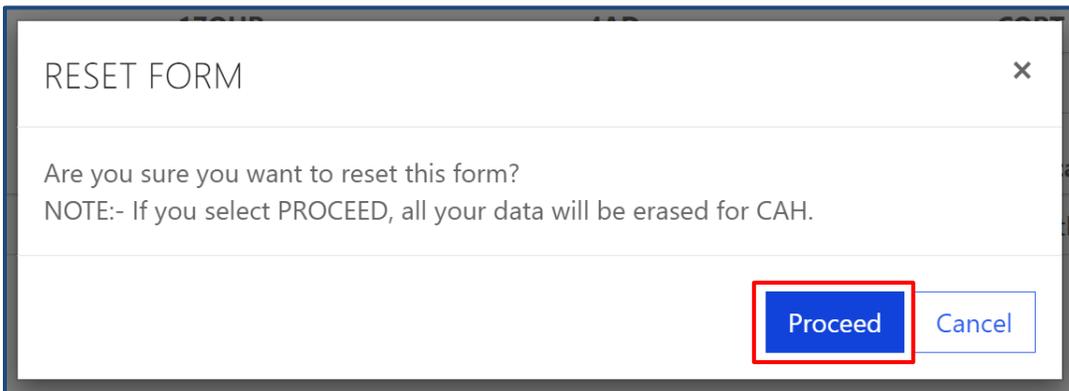
Specimen Number	17OHP	4AD	CORT
20213010005	<input type="text"/>	<input type="text"/>	<input type="text"/>
11D	21D	Clinical Ratio	Clinical Assessment *
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments

SAVE RESET FORM

About NSQAP Self-Service Portal

2. Confirm the form reset by clicking 'Proceed'.



RESET FORM

Are you sure you want to reset this form?
NOTE:- If you select PROCEED, all your data will be erased for CAH.

Proceed Cancel

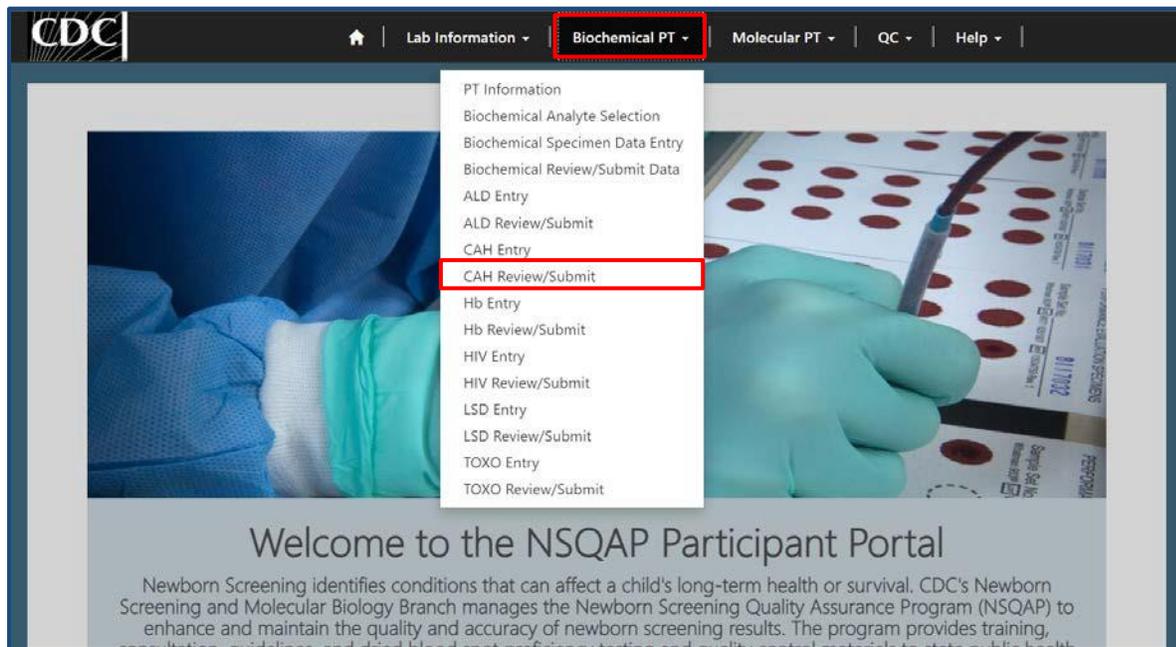
3. You will be redirected back to the CAH results entry landing page after the form is reset. Complete the CAHPT program entry as detailed in sections 1.2 – 1.4.

2. CAHPT Review & Submit Page

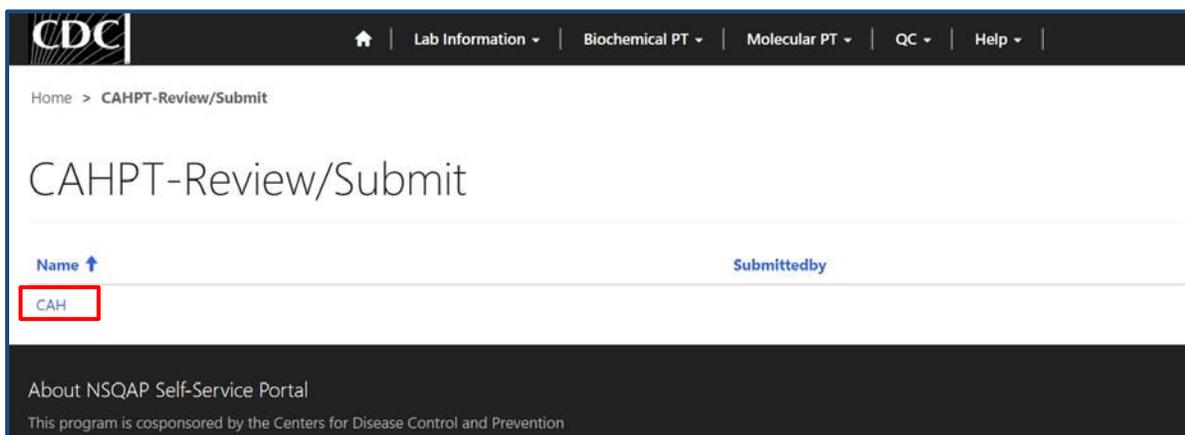
2.1 Navigation

Review and submit CAHPT specimen data after program information and results have been entered and saved (see section 1). Access the review/submit page via the 'CAH Review/Submit' option on the Biochemical PT drop-down menu.

1. Location of the 'CAH Review/Submit' page on the main menu tool bar. Select '**Biochemical PT**' then '**CAH Review/Submit**' from the drop-down menu.



2. The CAH Review/Submit landing page will appear. Select '**CAH**' to navigate to the review and submit page.



2.2 Review

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

Home > CAHPT Review/Submit

CAHPT Review/Submit

LC-MS/MS Clinical Ratio Cutoff:
—

Specimen Number	17OHP	4AD	CORT
20213010001	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Within Normal Limits

⌵

Specimen Number	17OHP	4AD	CORT
20213010002	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Outside Normal Limits

⌵

Specimen Number	17OHP	4AD	CORT
20213010003	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Within Normal Limits

⌵

Specimen Number	17OHP	4AD	CORT
20213010004	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Outside Normal Limits

⌵

Specimen Number	17OHP	4AD	CORT
20213010005	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Within Normal Limits

Comments

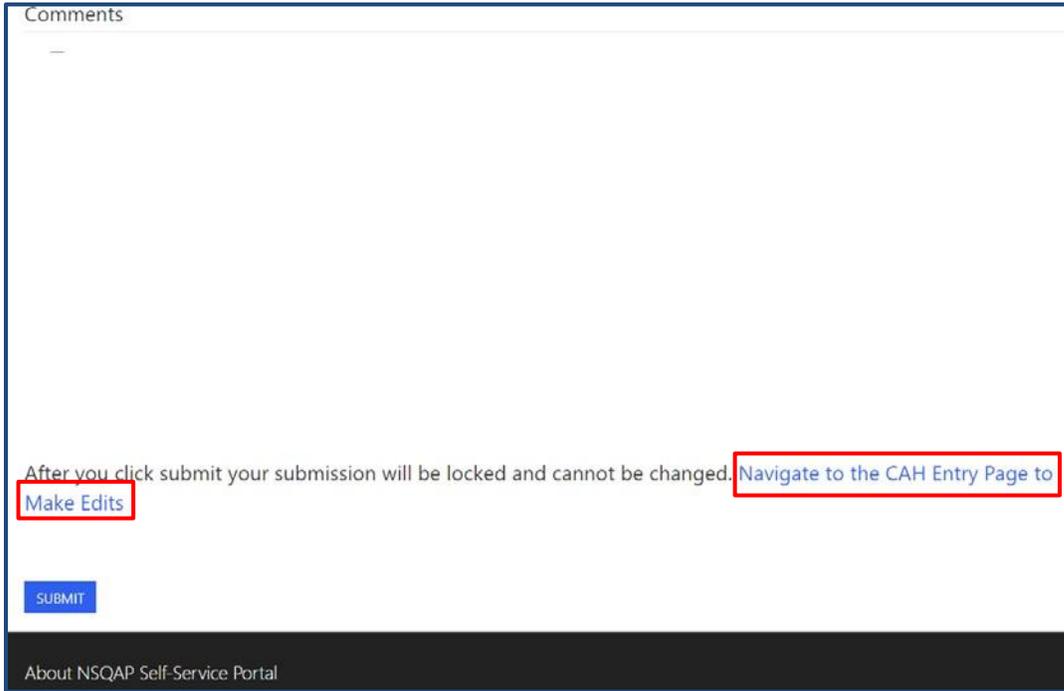
—

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

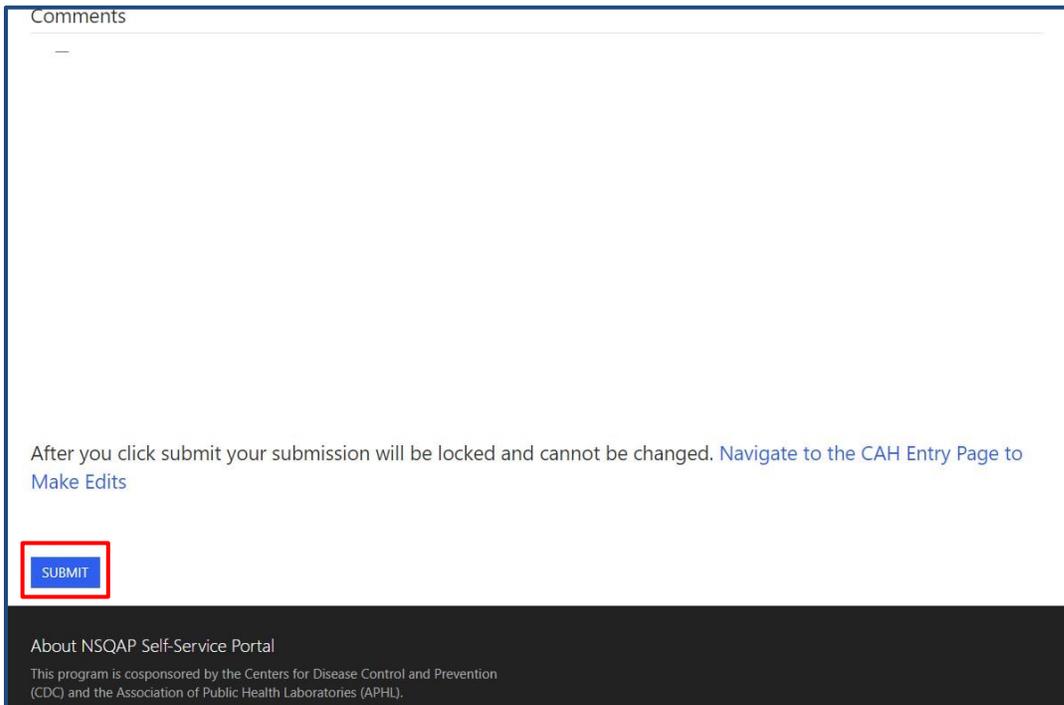
SUBMIT

About NSQAP Self-Service Portal

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



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



2.3 Submit

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

The screenshot shows the 'CAHPT Review/Submit' page. At the top, there is a navigation bar with the CDC logo and links for Lab Information, Biochemical PT, Molecular PT, QC, and Help. Below the navigation bar, the page title 'CAHPT Review/Submit' is displayed. A section titled 'LC-MS/MS Clinical Ratio Cutoff:' shows a value of '—'. Below this, there is a table with the following data:

Specimen Number	17OHP	4AD	CORT
20213010001	—	—	—
11D	21D	Clinical Ratio	Clinical Assessment *
—	—	—	Within Normal Limits

Below the table, there is a 'Submit' button highlighted with a red box. The button is blue with white text.

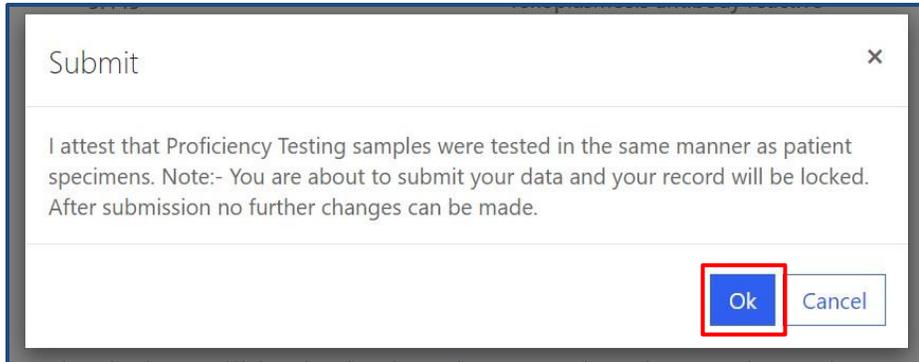
2. After reviewing the CAHPT review and submit page, submit results by clicking the 'Submit' button located at the bottom of the page.

The screenshot shows the 'Comments' section of the CAHPT Review/Submit page. The 'Comments' field is empty. Below the field, there is a message: 'After you click submit your submission will be locked and cannot be changed. [Navigate to the CAH Entry Page to Make Edits](#)'. At the bottom of the page, there is a 'SUBMIT' button highlighted with a red box. The button is blue with white text.

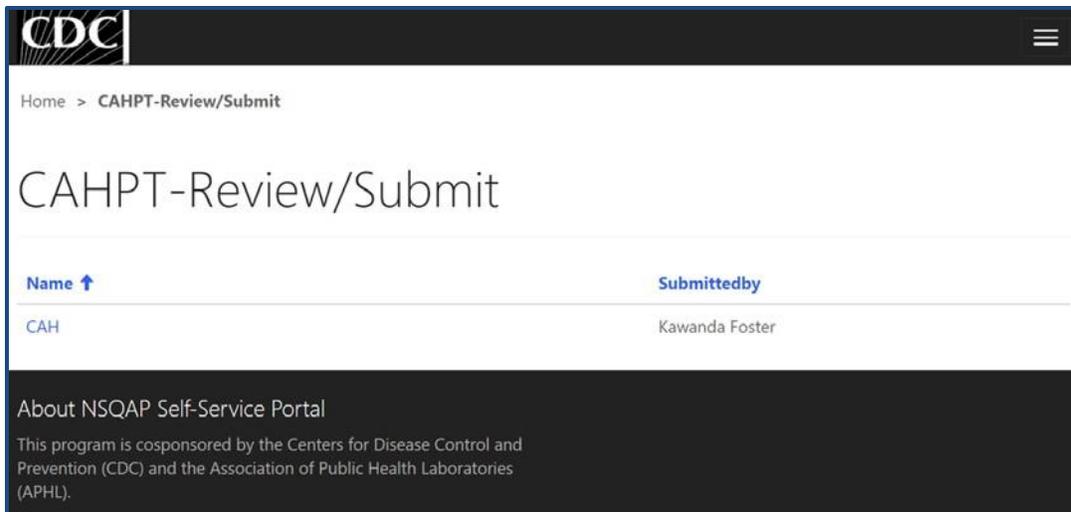
About NSQAP Self-Service Portal
 This program is cosponsored by the Centers for Disease Control and Prevention (CDC) and the Association of Public Health Laboratories (APHL).

3. You will be prompted to confirm that you are ready to submit. Click **'OK'** to confirm and submit your CAHPT 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 CAHPT review and submit landing page after you successfully submit.



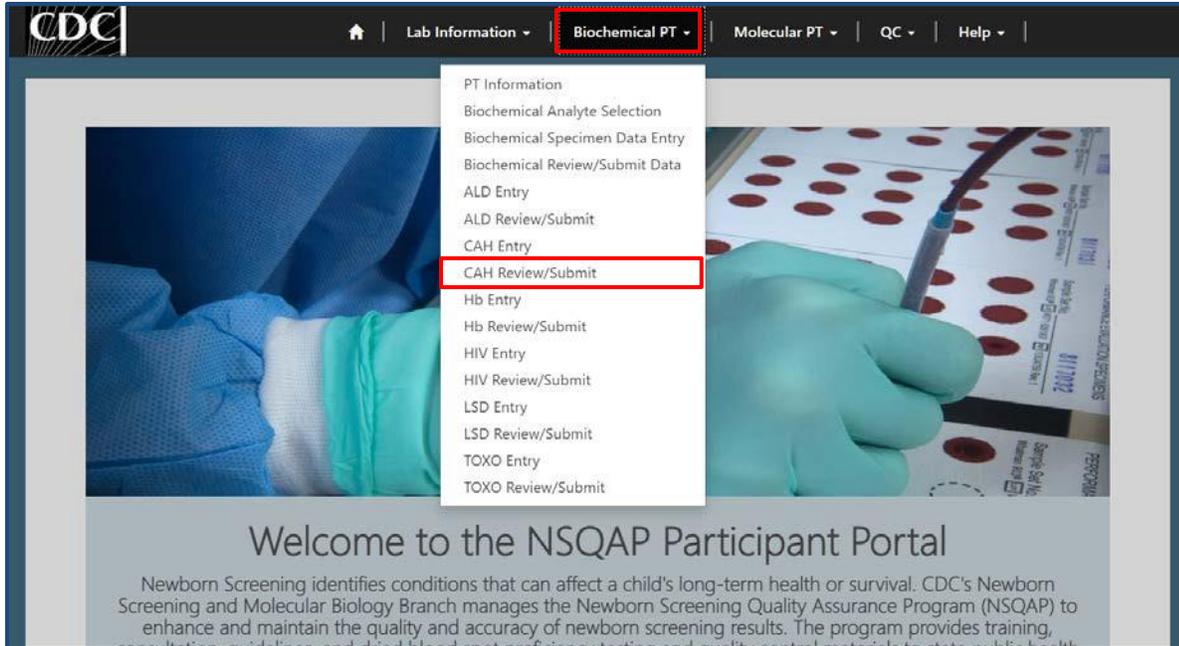
5. The CAHPT data entry page cannot be accessed after submission. You can view your submitted data in a read-only format by accessing the review and submit page (see sections 2.1 and 2.2).

2.4 Save Data – Pdf Format

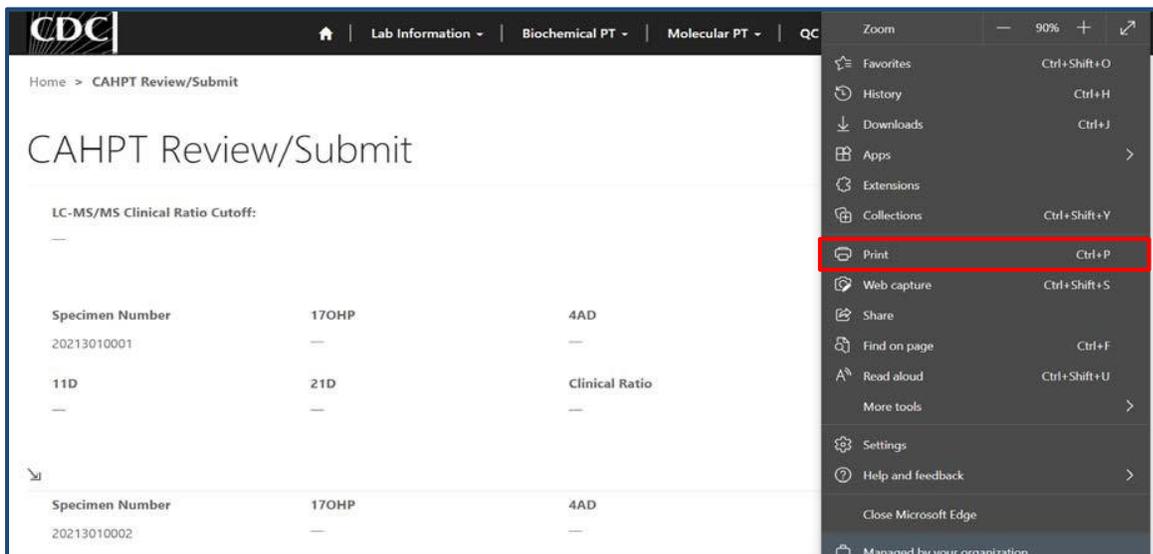
Submitted data can be saved in a pdf format by using the ‘Save a PDF’ function included in your web browser.

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

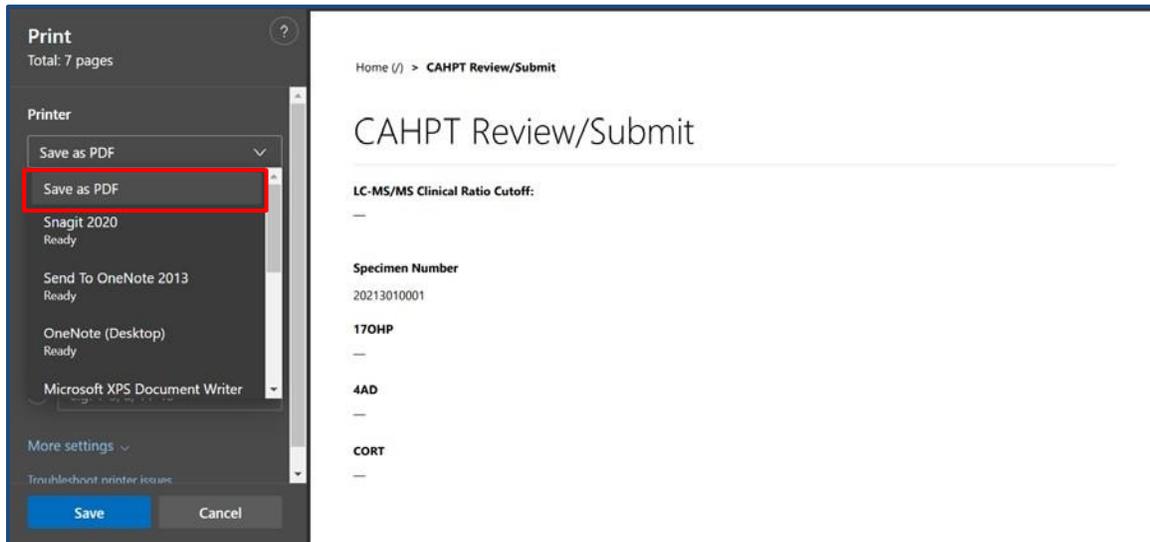
1. Navigate to the review and submit page as described in section 2.1.



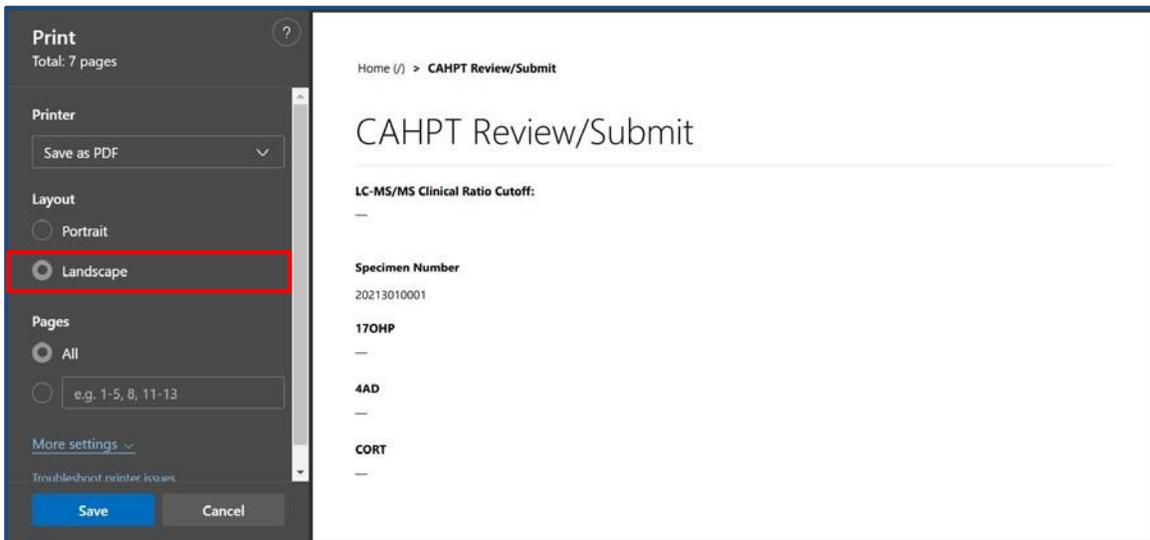
2. Locate the ‘Print’ function on your web browser.



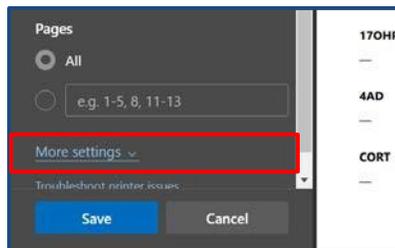
3. Select 'Save as PDF'.



4. Select 'Landscape' 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.

