ASEBA

ASEBA
Achenbach System of Empirically Based Assessment

ASEBA Progress & Outcomes (P&O App) User Guide

Version: May 21, 2020

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ASEBA P&O Procedures

Setting Up Account And Signing In to ASEBA P&O

Administrator - Initial Setup and Sign-in for ASEBA P&O account:

1. After having received the letter from ASEBA containing the token, click on the link (for example, https://www.p-and-o.org/createaccount?token=KYZBF-LGWKP-GFQJG-KNXPY to create your account.

2. The **ASEBA** P&O screen below will open to the **Validate Account** page, with the token field pre-populated :

P&O App™ Create New Account

Fill in the registration information below.

1. Validate Account

ASEBA®
P&O App™

Token
KYZBF-LGWKP-GFQJG-KNXPY

VALIDATE

3. Please click the **Validate** tab, which will take you to the next window:

4. Please fill out all the information for #2 and #3 pages. Please make up an **Account name** (or number). **Enter an Account name that will be meaningful and easy to remember**. This will be the account name for all users.

   For the "User Name" and "Account" fields please use a single word or hyphenated word. No Spaces. Username can be letters, number and use of one dash (-). Passwords needs to have 1 Uppercase, 1 lowercase, and be at least 10 characters long. ex. Password77

   Lockout of account after 7 repeated attempts and will last for 11 minutes.

   (Owner number is owner phone number)

   Please check off all agreements and click Continue.

2. Enter Account Information

Owner / Company Name
Owner / Company name is required.

Account
Account is required.

Owner Name
Owner name is required.

Owner Email
Owner email is required.

Owner Number

Owner Work Place Number

Street1

Street2

City   State

Zip Code   Country

3. Enter Administrator Information

First Name
First name is required.

Last Name
Last name is required.

Contact Email

Email is required.

User Name
Username is required.

Password
Password is required.

Confirm Password
Confirm password is required.

☐ I have read, and I agree with the End Users License Agreement

☐ I have read, and I agree with the HIPAA License Agreement

☐ I have read, and I agree with the Data Consent Agreement

☐ I have read, and I agree with the Processor Contract for GDPR

CONTINUE

5. Your account is now created and you will see the page below.

ASEBA P&O Procedures

Administrator / Regular User (System Admin) Functions Administrative Users have access to User Management and Account details, whereas Regular Users only have access to Home and Log Out.

Admin user view.

Regular user view.

Users Management (Administrative Users only)
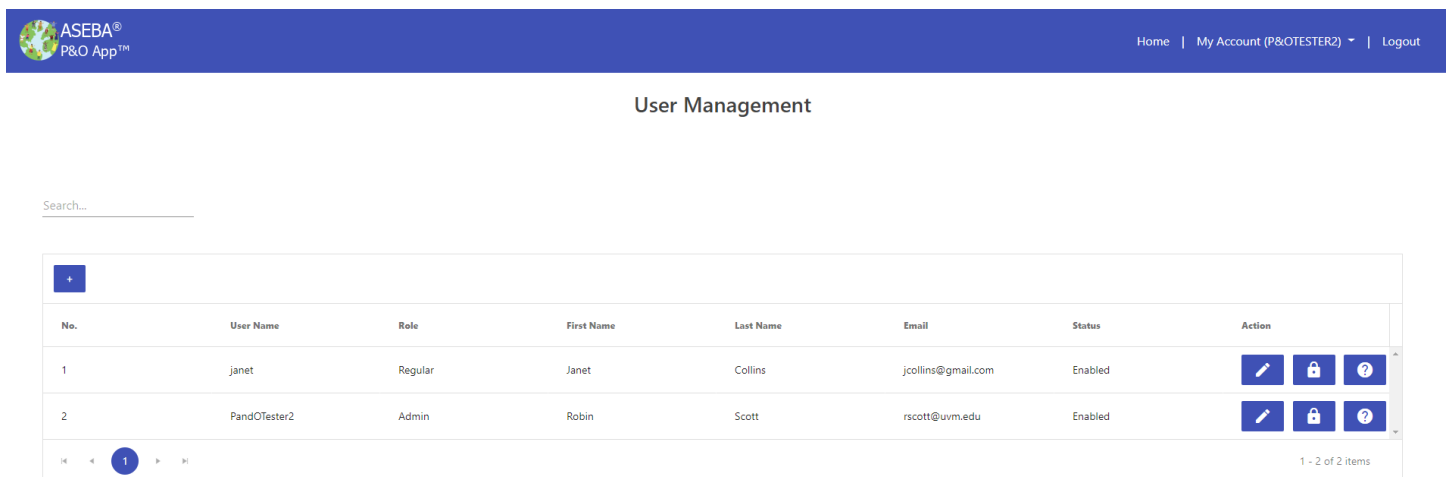
Use this function to manage program access (users, roles and access, and password features).

1. Sign in to ASEBA P&O at p-and-o.org or p-and-o.eu

2. Click on **My Account** (from the tab on top right)**> User Management**

3. The screen will open, displaying a list of current users (or will have only the administrator if none have been entered).

How to Add New Users

We suggest that you create more than one administrator for each account in case someone leaves the organization or is on vacation.

1. Sign in to ASEBA P&O at p-and-o.org or p-and-o.eu

2. Click on **My Account** (from the tab on top right)**> User Management**

3. Click on the blue + [+] button to add new users

4 Please fill out the information on the new user: Name, Email, User name, Password and Role. Phone number is optional. Click **Save.**

The new user will show up in your user list.

How to View Account Details - Administrators Only

1. Sign in to ASEBA P&O at p-and-o.org or p-and-o.eu

2. Click on **My Account** (from the tab on top right)**> Account Details**

   The Account Name, E-unit Balance and Account Expiration are viewable.

ASEBA®
P&O App™

Home | My Account (P&OTESTER2) ▼ | Log

User Management
Account Details

P&O App™ Account Details

P&O App™ Account Name: P&OTESTER2
E-Unit Balance: 50
Account Expiration Date: 2021-05-21T13:15:37.507 (364 Days)

HOME

How to Edit Users, Set & Reset Passwords and Disable Accounts

1. **Sign in** to ASEBA P&O at p-and-o.org or p-and-o.eu

2.   Click on **My Account** (from the tab on top right)**> User Management**

3.   Under the **Action Tab** you will see 3 icons for every user:

Click on the **Edit** icon to edit a user. You can change all the information shown below and **disable** the account. You will not be able to delete an account as HIPAA requires an audit trail. **Click Save.**

Update User ✕

First Name	Last Name
Paul	Glaser
Email	User Name
pmg@gmail.com	pmglaser
	Role Name
Phone	Regular ▼
☐ Account Disabled	

SAVE   CANCEL

Click on the **lock** icon to set a password for a user. Please fill in the password information and check off all agreements and Click Save. **Please let the user know what the new password has been changed to**.

Set Password ✕

User Name
pmglaser

Password

Confirm Password

☐ I have read, and I agree with the EULA
☐ I have read, and I agree with the HIPAA License agreement
☐ I have read, and I agree with the Data Consent agreement
☐ I have read, and I agree with the Processor Contract for GDPR

SAVE   CANCEL

Click on the **Question Mark** icon to reset a user's password. An email will be sent to the user for them to reset their password.

Request Password Reset ✕

User Name
pmglaser

☐ Requires Password Reset

SAVE   CANCEL
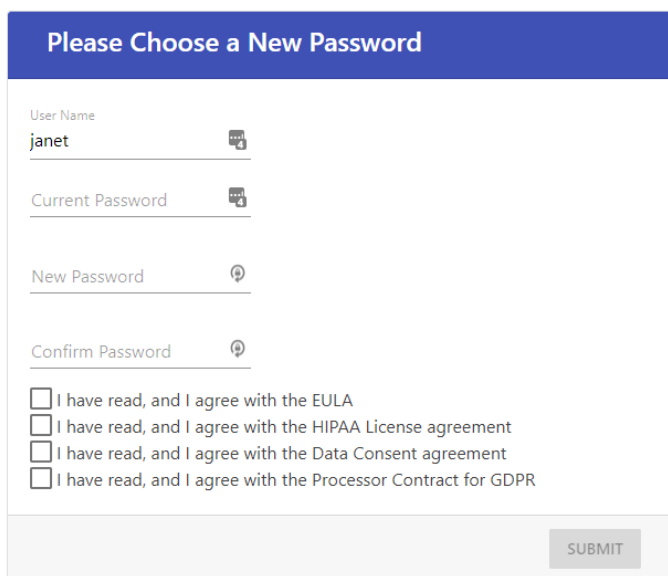
New User (Other than Administrator) Initial Sign-In to ASEBA P&O:

1. Navigate to: p-and-o.org or p-and-o.eu

2. The **Sign In** screen below will display:

3. Enter your **User Name** and **Password.(Enter the credentials provided to you by your administrator for initial sign-in.)**

4. Click **Log in**.

5. When signing in for the first time, the following screen will open, displaying fields for **User Name**, **Current Password, New Password**, **Password Confirmation**, links (and check boxes) pertaining to the **End User (EULA)** and **Health Insurance Portability and Accountability Act (HIPAA) License Agreements**, **Data Consent agreement and the Processor Contract for GDPR**, as well as a **Submit** button.

6. Enter **User Name**, **Current Password**, **New Password, confirmation of Password** again as provided to you. Enter a **New Password** that is at least 10 characters in length and contains at least 3 of the following characters: one upper case letter, one lower case letter, and one digit.

7. Confirm the new password by re-typing it in the **Password Confirmation** box (If passwords do not agree, user will receive an error message stating that "Those passwords didn't match. Try again."

8. Check off the **End User License Agreement (EULA) and the Health Insurance Portability and Accountability Act (HIPAA) documents, The Data Consent agreement and the Processor Contract for GDPR.**

9. Click **Submit**.

10. **Sign In** with the updated credentials

11. Program will open to the Home page.

How to Create an Individual Scale Score Report:

1. **Sign in** to ASEBA P&O at p-and-o.org or p-and-o.eu

2. Click on **Start a New Assessment. It is recommended that there be at least 5 forms per individual (for ex. Intake, Progress, Progress, Outcome, Follow-up), but the program will work with 4 forms.**

3. Create a name for your **New Assessment.** Ex. ISS report for Jackson Collins.

4. **Select a Data Source** - from Aseba-Web, Data file (Excel) or another P&O Assessment.

Please make sure that the amount of time between the first assessment of a client and the next are several months apart.

5. If you choose **Aseba-Web**, please click on **Aseba-Web** tab.

6. **Sign in** to your Aseba-Web account with username, password and Account name.

You will see a list of available Assessed Persons from your Aseba-Web account to choose from

Select Assessed Persons

Select the assessed persons that will be used in the analysis.

Search...

List of Available Assessed Persons

Select All	Identification ↑	Name	Date of Birth	Gender
☑	d1a2fa3da09b41919	Robert Martin		Male
☑	26a9a8d3b57b4657a	Lana Martin		Female
☑	9dcff4bd9a65465e9	Eric Martin		Male
☑	kjkj	jlkjklj kljkljkljklj		Male
☑	tod2<	d< d<		Female
☑	Michael Martin	Michael Martin		Male
☑	Jacob Martin	Jacob Martin		Male
☑	7205443df83f43778	Lauren Watts		Female
☑	Janet Carson	Janet Carson		Female
☑	b4b9d4532d874b6fb	Jonathan Cardenas		Others
☑	03134ef48c6f46809	Giovanni Frey		Male
☑	Michael Sampson	Michael Sampson		Male
☑	220743ba9a5649189	Leah Brewer		Female
☑	7205443df83f43778----967720	Lauren Watts		Female

7. **Uncheck Select All.**

8. Check the **Assessed person** you want the Individual Scale Score on and click **Continue**.

	Francis Lane----970438	Francis Lane	Male
☐	tod2<	d< d<	Female
☐	d1a2fa3da09b41919	Robert Martin	Male
☐	26a9a8d3b57b4657a	Lana Martin	Female
☐	9dcff4bd9a65465e9	Eric Martin	Male
☐	Michael Martin	Michael Martin	Male
☐	Jacob Martin	Jacob Martin	Male
☑	Jackson Collins	Jackson Collins	Male

|◄ ◄ **1** ► ►| 1 - 16 of 16 items

GO BACK   CONTINUE

9. Click on **Individual Scale Score**.

10. Click in the circle to select the **Assessed person** and click **Continue**.

11. Click on **Assign Date Numbers to Forms**.

12. **Assign Dates** 1, 2, 3, etc. and click **Continue**.

In the example below, there are only 4 forms for the selected Assessed person - two on initial intake and two 11 months later. The earliest dates are 1 and the later dates are 2. If you have many forms under an assessed person, please put 1 on a cluster of close or exact dates of earlier assessments (ex. mother and father completed CBCL forms on intake on or near the same date in June of 2019) and put 2 for clusters of later assessments close in date (ex. Grandparents and teachers completed CBCL forms in December of 2019), and 3 for even later clusters of dates (ex. mother and father once again do a CBCL at the end of therapy for Assessed person in May of 2020), etc..

Individual Scale Score Assessment Assign Date Numbers to Forms

Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.

Eval Id	Form Type	Informant	Date Completed	Date
	CBCL_6_18	d6f1abaa50a24a3eb	2019/06/07	1
	CBCL_6_18	de401814691b488f8	2020/05/25	2
	CBCL_6_18	de401814691b488f8	2019/06/07	1
	CBCL_6_18	d6f1abaa50a24a3eb	2020/05/22	2

|◄ ◄ **1** ► ►| 1 - 4 of 4 items

GO BACK   CONTINUE

13. Click on **Verify Assessment**.

	2. Select Assessed Person	Select the assessed person from the data set for which to generate the Individual Scale Scores Report.
	3. Assign Date Numbers to Forms	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
	4. Verify Assessment	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.
	4. Generate the Individual Scale Score Assessment	Generate the Individual Scale Score assessment report.

GO BACK   CLOSE ASSESSMENT

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If the Verification is successful, you will see the window below. If it is not, the verification will tell you want his wrong and to go back and edit the issue. Click **Continue.**

Verification

✓✓   Assessment verified successfully!

GO BACK   **CONTINUE**

14.   Click on **Generate the Individual Scale Score Assessment** to generate the ISS Report.

📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
⊘	**4. Verify Assessment**	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.
↗	**4. Generate the Individual Scale Score Assessment**	Generate the Individual Scale Score assessment report.

GO BACK   CLOSE ASSESSMENT

Below is **an example of an ISS Report** for Jackson Collins. Please navigate through the report by using the arrows at the top of the report. You may also print this report by clicking on the printer icon at the top of this report as well.

ASEBA® P&O App™ Individual Scale Scores Assessment

| ID: | Jackson Collins | Name: | | Gender: M | Age: | 9 | DOB: | 2010-Oct-13 | Clinician: David rettew; md |
| # Dates: | 2 | Form Date Range: | 2019-Jun-07 — 2020-May-25 | | Report Run Date: | 2020-May-27 02:45 PM | | | |

Solid lines indicate difference in raw scores exceed chance expectations between the first and last group. Asterisks indicate the probability that the change from Date 1 exceeds chance: *68% confidence; **95% confidence

ASEBA® P&O App™ Individual Scale Scores Assessment Detail: Date 1 vs. Date 2

| ID: | Jackson Collins | Name: | | Gender: M | Age: | 9 | DOB: | 2010-Oct-13 | Clinician: David rettew; md |
| # Dates: | 2 | Form Date Range: | 2019-Jun-07 — 2020-May-25 | | Report Run Date: | 2020-May-27 02:45 PM | | | |

20

| | T=
%ile= | 50
50
CBC1 | 50
50
CBC2 | T=
%ile= | 54
6
CBC1 | 54
6
CBC2 | 55
5
CBC1 | 55
5
CBC2 | 24
0
CBC1 | 24
0
CBC2 |

Asterisks indicate the probability that the change from Date 1 exceeds chance: *68% confidence; **95% confidence

ASEBA® P&O App™ Informant Details

ID: Jackson Collins   Name: Gender: M   Age: 9   DOB: 2010-Oct-13   Clinician: David rettew; md

Dates: 2   Form Date Range: 2019-Jun-07 — 2020-May-25   Report Run Date: 2020-May-27 01:58 PM

Short Code	ID	Name	Gender	Relationship	Form	Form Dates
CBC1	d6f1abaa50a24a3eb	Joanne Collins			CBC	2019-Jun-07, 2020-May-22
CBC2	de401814691b488f8	Robert Collins			CBC	2019-Jun-07, 2020-May-25

ASEBA® P&O App™ Appendix: Individual Scale Score Comparison Tables: Date 1 vs. Date 2

ID: Jackson Collins   Name: Gender: M   Age: 9   DOB: 2010-Oct-13   Clinician: David rettew; md

Dates: 2   Form Date Range: 2019-Jun-07 — 2020-May-25   Report Run Date: 2020-May-27 02:45 PM

Date 1 vs. Date 2: Strengths

Informant Short Code	Reliability (r)	Mean (M) of Referred Pop.	Raw Score 1 (X)	Adj. Raw Score 1 $(1-r)*M+(r*X)$	Raw Score 2 (Y)	Adj. Raw Score 2 $(1-r)*M+(r*Y)$	Outcome Score $|A1-A2|$	SEM of Referred Pop.	Outcome $|A1-A2| >$ $(SEM*z)$
CBC1	0.91	17.7	22.5	22.068	24.5	23.888	1.82	1.5	Significant @ 68%
CBC2	0.91	17.7	21.5	21.158	24.5	23.888	2.73	1.5	Significant @ 68%

Date 1 vs. Date 2: Internalizing

Informant Short Code	Reliability (r)	Mean (M) of Referred Pop.	Raw Score 1 (X)	Adj. Raw Score 1 $(1-r)*M+(r*X)$	Raw Score 2 (Y)	Adj. Raw Score 2 $(1-r)*M+(r*Y)$	Outcome Score $|A1-A2|$	SEM of Referred Pop.	Outcome $|A1-A2| >$ $(SEM*z)$
CBC1	0.91	14.3	10	10.387	0	1.287	9.1	2.9	Significant @ 95%
CBC2	0.91	14.3	13	13.117	0	1.287	11.83	2.9	Significant @ 95%

Date 1 vs. Date 2: Externalizing

Informant Short Code	Reliability (r)	Mean (M) of Referred Pop.	Raw Score 1 (X)	Adj. Raw Score 1 $(1-r)*M+(r*X)$	Raw Score 2 (Y)	Adj. Raw Score 2 $(1-r)*M+(r*Y)$	Outcome Score $|A1-A2|$	SEM of Referred Pop.	Outcome $|A1-A2| >$ $(SEM*z)$
CBC1	0.92	23.8	3	4.664	0	1.904	2.76	3.4	Not Significant
CBC2	0.92	23.8	5	6.504	0	1.904	4.6	3.4	Significant @ 68%

Date 1 vs. Date 2: Total Problems

Informant Short Code	Reliability (r)	Mean (M) of Referred Pop.	Raw Score 1 (X)	Adj. Raw Score 1 $(1-r)*M+(r*X)$	Raw Score 2 (Y)	Adj. Raw Score 2 $(1-r)*M+(r*Y)$	Outcome Score $|A1-A2|$	SEM of Referred Pop.	Outcome $|A1-A2| >$ $(SEM*z)$
CBC1	0.94	68.2	22	24.772	0	4.092	20.68	7.9	Significant @ 95%
CBC2	0.94	68.2	30	32.292	0	4.092	28.2	7.9	Significant @ 95%

HOW TO IMPORT A DATA FILE (EX. EXCEL) FOR ISS REPORT

1. Please click on **P&O App Data File**.

New Assessment - Select Data Source
Select where the data for the new assessment is coming from.

🌐	**ASEBA-Web™**	Import data directly from your ASEBA-Web™ account. Requires an active ASEBA-Web™ account and valid login credentials.
📁	**P&O App™ Data File**	Import data from a P&O App™ data file. Data files can be created from data in ASEBA-Web™, ASEBA-PC™ or ASEBA-Network™.
📊	**P&O App™ Assessment**	Use data from an existing P&O App™ assessment that you have previously created. This makes a full copy of the data separate from the original assessment.

2. Please click **Select your file to upload**.

Importing data from Data Files
Browse and select the file you want to import

⬆	Select your file to upload.

GO BACK

3. Please browse to your file, click on the file and then click on **Open**.

Name	Date modified	Type	Size
P&O_2_Service_Test.xlsx	3/24/2020 3:08 PM	Microsoft Excel W...	23 KB
P&O_ISS_Test_1.xlsx	3/24/2020 3:08 PM	Microsoft Excel W...	30 KB

Custom Files (*.xls;*.xlsx)

Open   Cancel
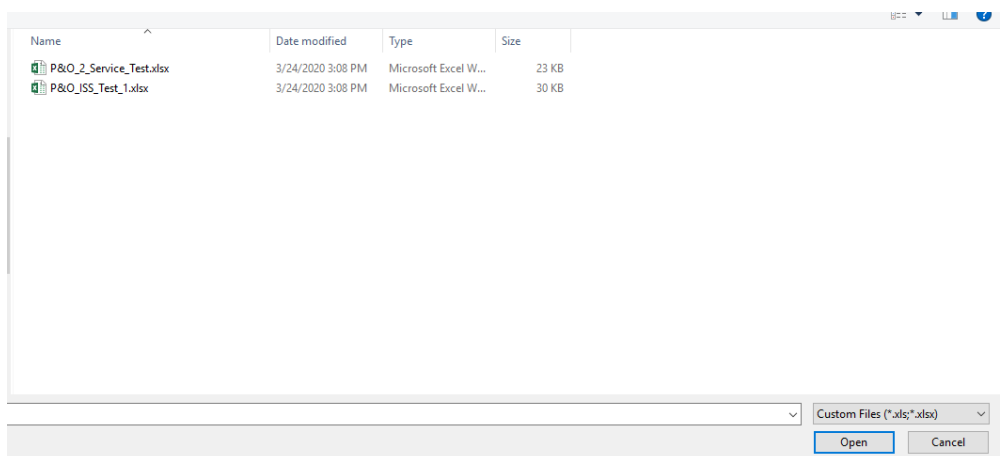
The file will be imported into the program.
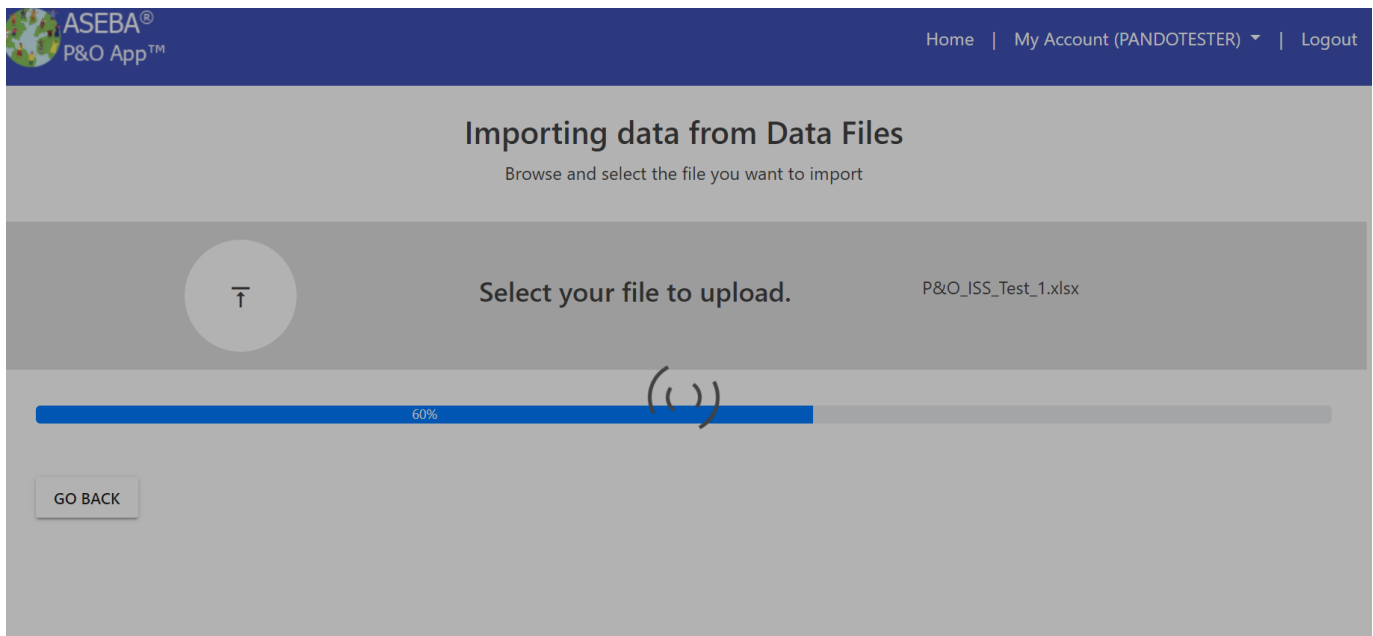
4.   Please continue to follow the directions from **pages 16-19**.

HOW TO IMPORT DATA FROM A PREVIOUS ASSESSMENT FOR AN ISS REPORT

1.   Please click on **P&O App Assessment tab.**

2. Please click **the Existing Assesment** that you want to import data from and click **Continue**.

Select Existing Assessment

Select an existing assessment from the list below

Existing Assessments	Preview / Description
Testing 22	
Testing 25	
testing 26	
ISS Collins	
ISS J Collins	
ISS Report JC	
ISS Report J Collins	

CANCEL

CONTINUE

3. Or, you may click on **Open an Existing Assessment** from the Home Page.

P&O App™ Assessments

Assessments can be done on individuals or can be done on different sets of services provided to individuals.

	Start a New Assessment	Start a new assessment, either for an individual or a set of services.
+		

	Open an Existing Assessment	Open a previously completed assessment, or one currently in-progress.

	Random Number Generator Tool	Before services can be analyzed, they have to be assigned to individuals before the start of care. The Random Number Generator helps facilitate this process.

4. Please continue to follow the directions from pages **16-19**.

How to Create an Anova Report:

Analysis of Variance determines if the mean outcome scores between services exceed chance expectations. Outcomes are also tested by characteristic to look for interaction effects. Covariates can be defined and may account for some of the difference. ****It is recommended that you have data from 50+ Assessed persons before attempting an Anova Report.****

1. **Sign in to ASEBA P&O** at p-and-o.org or p-and-o.eu

2. Click on **Start a New Assessment**.

P&O App™ Assessments

Assessments can be done on individuals or can be done on different sets of services provided to individuals.

+	**Start a New Assessment**	Start a new assessment, either for an individual or a set of services.
🗀	**Open an Existing Assessment**	Open a previously completed assessment, or one currently in-progress.
⤫	**Random Number Generator Tool**	Before services can be analyzed, they have to be assigned to individuals before the start of care. The Random Number Generator helps facilitate this process.

3. Create a name for you **New Anova Assessment** and click **Next.**

Create New Assessment

Assessment Name

Anova Report 2

Notes

GO BACK   NEXT

4.

      Select a Data Source - from Aseba-Web, Data file (Excel) or another P&O App Assessment.

      For this example, I will be importing data from a Excel data file.

New Assessment - Select Data Source

Select where the data for the new assessment is coming from.

🌐	**ASEBA-Web™**	Import data directly from your ASEBA-Web™ account. Requires an active ASEBA-Web™ account and valid login credentials.
📁	**P&O App™ Data File**	Import data from a P&O App™ data file. Data files can be created from data in ASEBA-Web™, ASEBA-PC™ or ASEBA-Network™.
📊	**P&O App™ Assessment**	Use data from an existing P&O App™ assessment that you have previously created. This makes a full copy of the data separate from the original assessment.

GO BACK

5.   **Select** the file to import

Importing data from Data Files

Browse and select the file you want to import

⬆	Select your file to upload.

GO BACK

ASEBA®
P&O App™

Home | My Account (PANDOTESTER) ▾ | Logou

Importing data from Data Files

Browse and select the file you want to import

⬆   Select your file to upload.   P&O_2_Service_Test.xlsx

50%

GO BACK

6. **Select** the **Assessed persons** you want to import or leave on **Select All** and click **Continue.**

Select Assessed Persons

Select the assessed persons that will be used in the analysis.

Search...

List of Available Assessed Persons

☑ Select All	⋮	Identification ↑	⋮	Name	⋮	Date of Birth	⋮	Gender	⋮
☑		Adult-1-A		Yesenia BURCH				Female	
☑		Adult-2-A		Clarissa LEWIS				Female	
☑		Adult-3-A		Dominic CHURCH				Male	
☑		Adult-4-A		Francisco CALHOUN				Male	
☑		Adult-5-A		Russell QUINN				Male	
☑		Adult-6-A		Pamela WALLER				Female	
☑		Adult-7-A		Oscar GEORGE				Male	
☑		Adult-8-A		Miriam BLANCHARD				Female	
☑		Adult-9-A		Nicolas NAVARRO				Male	
☑		Adult-10-A		Bailey DEAN				Female	
☑		Adult-11-A		Bryanna HATFIELD				Female	
☑		Adult-68-B		Chelsey HAYS				Female	
☑		Adult-69-B		Lauren JORDAN				Female	
☑		Adult-70-B		Scott MIRANDA				Male	
☑		Adult-71-B		Lillian HAAS				Female	
☑		Adult-72-B		Alma HINTON				Female	
☑		Adult-73-B		Joanna RIVERA				Female	
☑		Adult-74-B		Trinity CAIN				Female	
☑		Adult-75-B		Quinn MOSS				Male	
☑		Adult-76-B		Sabrina CARRILLO				Female	
☑		Adult-77-B		Carlos ZAVALA				Male	
☑		Adult-78-B		Tyrone HESTER				Male	
☑		Adult-79-B		Ryan CRUZ				Male	
☑		Adult-80-B		Carolina WHITNEY				Female	

|◀ ◀ 1 2 3 **4** ▶ ▶| 61 - 80 of 80 items

GO BACK

CONTINUE

7. Click on **Anova**

Select P&O App™ Assessment Type

Select which type of assessment you'd like to apply to your data set. E-Units are charged after this step.

	Individual Scale Score	Conduct an analysis for a single individual person. The goal of this analysis is to show whether or not the difference in scale scores between two assessments conducted at different dates exceed chance expectations.
	Chi-Square	Pearson's Chi-Square Test for Independence determines if the proportion of desirable outcomes between services exceed chance expectations. Outcomes are divided into categories based off of certain selectable criteria, and the proportion of those categories from each service is tested to see if the categorization is independent of the choice of service.
	ANOVA	Analysis of Variance determines if the mean outcome scores between services exceed chance expectations. Outcomes are also tested by characteristic to look for interaction effects. Covariates can be defined and may account for some of the difference.

GO BACK

8. Create a name for the **Services** you are providing, if more than 2, please click on the + symbol to add services and click **Next**.

Create New Assessment

Service Name

Group A

Service Name

Group B

Add more services   ＋

OR

☐ Use existing services

Please select an assessme ▼

GO BACK   NEXT

9.   Click on **Assign Client to Services**.

ANOVA Assessment

Complete the steps below to create an ANOVA Assessment report. Completed steps are highlighted.

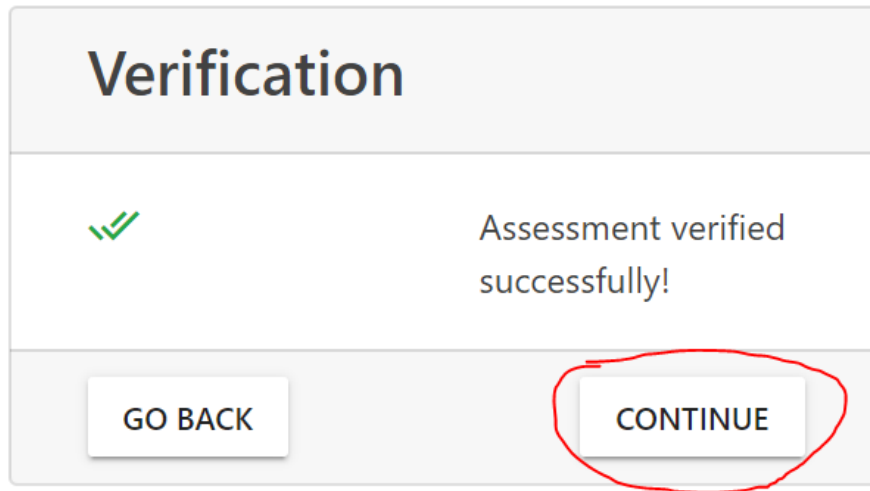|		
🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◗	**4. Define Covariates**	View and identify any potential covariates in the data.

10.   **Assign services to clients. Please assign services under Service Method tab.** You may also choose **Select All** at the bottom of the page if the groupings are all using the same service on that page.

ANOVA - Assign Clients to Services

Search...

Select All	Identification	Name	Sex	Date of Birth	Service Method
☐	Adult-1-A	Yesenia BURCH	Female	1963/05/14	Group A ▾
☐	Adult-54-B	Cristina STANLEY	Female	1979/02/14	Group B ▾
☐	Adult-53-B	Bailey STANLEY	Female	1973/07/06	Group B ▾
☐	Adult-55-B	Anna YOUNG	Female	1961/10/10	Group B ▾
☐	Adult-51-B	Conor BRAY	Male	1999/08/25	Group B ▾
☐	Adult-52-B	Keegan DONOVAN	Male	1995/03/10	Group B ▾
☐	Adult-56-B	Braxton HALE	Male	1980/10/27	Group B ▾
☐	Adult-59-B	Tatum JONES	Female	1987/07/14	Group B ▾
☐	Adult-58-B	Luis POWELL	Male	1996/05/21	Group B ▾
☐	Adult-60-B	Tori PACHECO	Female	1980/11/23	Group B ▾
☐	Adult-57-B	Veronica FINLEY	Female	1992/05/21	Group B ▾
☐	Adult-44-B	Kayleigh MELENDEZ	Female	1994/03/22	Group B ▾

	Adult-79-B	Ryan CRUZ	Male	1975/05/03	Group B ▾
☐	Adult-78-B	Tyrone HESTER	Male	1978/08/31	Group B ▾
☐	Adult-80-B	Carolina WHITNEY	Female	1968/05/21	Group B ▾
☐	Adult-77-B	Carlos ZAVALA	Male	1973/07/17	Group B ▾
☐	Adult-70-B	Scott MIRANDA	Male	1978/07/18	Group B ▾
☐	Adult-64-B	Chad RUIZ	Male	1967/04/14	Group B ▾
☐	Adult-63-B	Evan ERICKSON	Male	1987/04/13	Group B ▾
☐	Adult-65-B	Alexis MERRITT	Female	1966/05/09	Group B ▾
☐	Adult-62-B	Rene TERRY	Male	1965/01/12	Group B ▾
☐	Adult-66-B	Paola DUFFY	Female	1996/07/15	Group B ▾
☐	Adult-69-B	Lauren JORDAN	Female	1964/01/06	Group B ▾
☐	Adult-68-B	Chelsey HAYS	Female	1984/08/25	Group B ▾

|◄ ◄ 1 **2** 3 4 ► ►| 21 - 40 of 80 items

ASSIGN SELECTED TO GROUP A   ASSIGN SELECTED TO GROUP B

GO BACK   CONTINUE TO ASSESSMENT HOME

11. Please make sure to click on every page of **Assessed Persons** and assign them a service.

	Adult-39-A	Jayden HUANG	Male	1995/04/09	Group A
☐	Adult-38-A	Jordon CONWAY	Male	1963/07/07	Group A ▾
☐	Adult-40-A	Brennan HERRERA	Male	1975/10/05	Group A ▾
☐	Adult-37-A	Bianca HOLT	Female	1988/05/03	Group A ▾
☐	Adult-30-A	Johnny ROGERS	Male	1987/12/27	Group A ▾
☐	Adult-24-A	Larry CASEY	Male	1973/03/05	Group A ▾
☐	Adult-23-A	Marcos KIDD	Male	1988/06/21	Group A ▾
☐	Adult-25-A	Alisha MCLAUGHLIN	Female	1984/04/20	Group A ▾
☐	Adult-22-A	Jenna DOWNS	Female	1998/10/21	Group A ▾
☐	Adult-26-A	Billy MCDANIEL	Male	1993/03/21	Group A ▾
☐	Adult-29-A	Dylan SWANSON	Male	1978/11/04	Group A ▾
☐	Adult-28-A	Hugo PONCE	Male	1975/04/09	Group A ▾
☐	Adult-27-A	Ahmad DUNCAN	Male	1978/11/04	Group A ▾

|◄ ◄ 1 2 3 **4** ► ►| 61 - 80 of 80 items

ASSIGN SELECTED TO GROUP A   ASSIGN SELECTED TO GROUP B

GO BACK   CONTINUE TO ASSESSMENT HOME

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12.   Click on **Continue to Assessment Home.**

☐	Adult-30-A	Johnny ROGERS	Male	1987/12/27	Group A ▾
☐	Adult-24-A	Larry CASEY	Male	1973/03/05	Group A ▾
☐	Adult-23-A	Marcos KIDD	Male	1988/06/21	Group A ▾
☐	Adult-25-A	Alisha MCLAUGHLIN	Female	1984/04/20	Group A ▾
☐	Adult-22-A	Jenna DOWNS	Female	1998/10/21	Group A ▾
☐	Adult-26-A	Billy MCDANIEL	Male	1993/03/21	Group A ▾
☐	Adult-29-A	Dylan SWANSON	Male	1978/11/04	Group A ▾
☐	Adult-28-A	Hugo PONCE	Male	1975/04/09	Group A ▾
☐	Adult-27-A	Ahmad DUNCAN	Male	1978/11/04	Group A ▾

|◄ ◄ 1 2 3 **4** ► ►| 61 – 80 of 80 items

[ASSIGN SELECTED TO GROUP A]   [ASSIGN SELECTED TO GROUP B]

[GO BACK]   [CONTINUE TO ASSESSMENT HOME]

13.   Click on **Assign Date Numbers to Forms.**

ANOVA Assessment

Complete the steps below to create an ANOVA Assessment report. Completed steps are highlighted.

🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◑	**4. Define Covariates**	View and identify any potential covariates in the data.

14. On this page, please assign Date 1 and Date 2 to **each Assessed person** for this Anova Report. After assigning Date 1 and Date 2, please click on **Next** to go the the next Assessed Person in the list. The dates should appear in order of oldest to newest on the list. Once you have completed assigning dates to all Assessed Persons, please click on **Continue to Assessment Home**. This step will take the most time.

ANOVA Assign Date # to Forms

For each client you must select the Intake (Date1) form and the Last (Date2) form

PREVIOUS   Trinity CAIN   NEXT   ↻

2/80

↓ Forms for Trinity CAIN ↓

Eval Id	Form Type	Informant	Date Completed	Int T	Ext T	Total T	Date
IN-4	ASR 18-59	Adult-74-B	2018/09/22	60	60	60	⦿ Date 1 ◯ Date 2
PI-2	ASR 18-59	Adult-74-B	2019/03/20	53	53	53	◯ Date 1 ⦿ Date 2

|◄ ◄ ① ► ►| 1 - 2 of 2 items

GO BACK   CONTINUE TO ASSESSMENT HOME

ANOVA Assign Date # to Forms

For each client you must select the Intake (Date1) form and the Last (Date2) form

PREVIOUS   Yesenia BURCH   NEXT   ↻

80/80

↓ Forms for Yesenia BURCH ↓

Eval Id	Form Type	Informant	Date Completed	Int T	Ext T	Total T	Date
IN-2	ASR 18-59	Adult-1-A	2018/05/16	62	71	66	⦿ Date 1 ◯ Date 2
PI-3	ASR 18-59	Adult-1-A	2018/11/11	56	65	60	◯ Date 1 ⦿ Date 2

|◄ ◄ ① ► ►| 1 - 2 of 2 items

GO BACK   CONTINUE TO ASSESSMENT HOME

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15. Click on **Define Covariates.**

ANOVA Assessment

Complete the steps below to create an ANOVA Assessment report. Completed steps are highlighted.

🔒	1. Import forms data	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶	2. Assign Clients to Services	Select which service the assessed person received between Date 1 and Date 2.
📅	3. Assign Date Numbers to Forms	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◗	4. Define Covariates	View and identify any potential covariates in the data.

16. On these pages, you can view **Client Characteristics for Analysis of Covariance**. Click **Continue.**

Client Characteristics for Analysis of Covariance

Form Type	Client's ID	Date #	Date Completed	Relation to Client	Client's Gender	Client's Age	User Defined 1	User Defined 2	User Defined Text 1	User Defined Text 2
ASR	Adult-79	2018/12/09	2018/12/09		M	43	4		ASR_M_36	
ASR	Adult-2	2018/10/12	2018/10/12		F	34	1		ASR_F_18	
ASR	Adult-14	2018/10/11	2018/10/11		M	21	1		ASR_M_18	
ASR	Adult-10	2018/11/17	2018/11/17		F	46	1		ASR_F_36	
ASR	Adult-31	2018/09/24	2018/09/24		F	40	2		ASR_F_36	
ASR	Adult-61	2018/09/11	2018/09/11		M	56	4		ASR_M_36	
ASR	Adult-41	2018/09/30	2018/09/30		M	29	3		ASR_M_18	
ASR	Adult-68	2018/07/26	2018/07/26		F	33	4		ASR_F_18	
ASR	Adult-19	2018/09/06	2018/09/06		F	45	1		ASR_F_36	
ASR	Adult-37	2018/09/15	2018/09/15		F	30	2		ASR_F_18	
ASR	Adult-6	2018/12/05	2018/12/05		F	21	1		ASR_F_18	
ASR	Adult-16	2019/05/20	2019/05/20		M	23	1		ASR_M_18	
ASR	Adult-77	2018/09/08	2018/09/08		M	45	4		ASR_M_36	
ASR	Adult-47	2018/10/22	2018/10/22		M	33	3		ASR_M_18	
ASR	Adult-17	2018/01/14	2018/01/14		F	36	1		ASR_F_36	
ASR	Adult-79	2019/06/08	2019/06/08		M	44	4		ASR_M_36	
ASR	Adult-13	2019/02/16	2019/02/16		M	58	1		ASR_M_36	
ASR	Adult-20	2018/09/17	2018/09/17		F	22	1		ASR_F_18	
ASR	Adult-40	2018/11/25	2018/11/25		M	43	2		ASR_M_36	
ASR	Adult-30	2018/07/17	2018/07/17		M	30	2		ASR_M_18	
ASR	Adult-7	2018/04/17	2018/04/17		M	21	1		ASR_M_18	
ASR	Adult-23	2018/04/01	2018/04/01		M	29	2		ASR_M_18	
ASR	Adult-12	2018/05/09	2018/05/09		F	35	1		ASR_F_18	
ASR	Adult-53	2019/04/21	2019/04/21		F	45	3		ASR_F_36	
ASR	Adult-58	2019/02/25	2019/02/25		M	22	3		ASR_M_18	
ASR	Adult-49	2018/03/28	2018/03/28		F	35	3		ASR_F_18	
ASR	Adult-59	2019/04/10	2019/04/10		F	31	3		ASR_F_18	
ASR	Adult-64	2019/01/01	2019/01/01		M	51	4		ASR_M_36	

|◄ ◄ 1 2 3 4 5 6 7 **8** ► ►| 141 - 160 of 160 items

GO BACK

CONTINUE

17. Click on **Verify Assessment.**

🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◕	**4. Define Covariates**	View and identify any potential covariates in the data.
⊘	**5. Verify Assessment**	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.

If the Verification is successful, you will see the window below. If it is not, the verification will tell you want his wrong and to go back and edit the issue. Please click on **Continue to Assessment Home.**

Verification

✅   Assessment verified successfully!

GO BACK   **CONTINUE TO ASSESSMENT HOME**

18. Click on **Generate the ANOVA Assessment** for the **ANOVA** Report.

🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◕	**4. Define Covariates**	View and identify any potential covariates in the data.
⊘	**5. Verify Assessment**	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.
〽	**6. Generate the ANOVA Assessment**	Generate the ANOVA assessment report.

GO BACK   VIEW / MODIFY THE DATASET   CLOSE ASSESSMENT

19. Choose either **Client Characteristics or Covariates** that you wish to generate the ANOVA report on. In this example, Gender was chosen. Click **Generate Report**.

ANOVA Report Generation

Service Counts	Internalizing Problems Scale		Externalizing Problems Scale		Total Problems Scale	
	Date 1	Date 2	Date 1	Date 2	Date 1	Date 2
Group A	40	40	40	40	40	40
Group B	40	40	40	40	40	40

Client Characteristics   ◉ Gender   ○ Age Range

Covariates   ○ User Defined 1   ○ User Defined Text 1

GO BACK   GENERATE REPORT

Below is an example of a 5 page **ANOVA Report**.

Internalizing	Externalizing	Total Problems
⭐	⭐	⭐
Significant at p < 0.01	**Significant at p < 0.01**	**Significant at p < 0.01**
The difference between services exceeds chance expectations. A difference this large would occur by chance in less than 1% of comparisons. The Contrasts section provides details. The effect size of the difference is large.	The difference between services exceeds chance expectations. A difference this large would occur by chance in less than 1% of comparisons. The Contrasts section provides details. The effect size of the difference is large.	The difference between services exceeds chance expectations. A difference this large would occur by chance in less than 1% of comparisons. The Contrasts section provides details. The effect size of the difference is large.
There is a significant interaction between service and gender.	There is a significant interaction between service and gender.	There is a significant interaction between service and gender.
Mean Outcome Scores	Mean Outcome Scores	Mean Outcome Scores
Group A: -5 Group B: -7.9	Group A: -5 Group B: -7.9	Group A: -5 Group B: -7.9

All clients were assessed before receiving the service (Date 1). The same assessment was repeated at a designated treatment milestone (Date 2). This analysis tests whether changes in assessment scores from Date 1 to Date 2 differ sufficiently between services to exceed chance expectations.

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ASEBA® P&O App™ ANOVA Effect Sizes

The effect size of the difference between services is large.

The effect size of the interaction between services and gender is medium.

The effect size of the difference between services is large.

The effect size of the interaction between services and gender is small.

The effect size of the difference between services is large.

The effect size of the interaction between services and gender is medium.

Effect Sizes: Small = 1% to 5.8%, Medium = 5.9% to 13.7%, Large ≥ 13.8%.

ASEBA® P&O App™ ANOVA Contrasts Report: Group A vs. Group B

Internalizing

⭐

Significant at 99% CI

Mean Outcome Scores at 99% CI

In the above chart, the dots are the mean outcome scores and the boxes represent the confidence intervals. Differences between mean outcomes scores exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

The difference between mean outcome scores between Group A and Group B exceeds chance expectations at CI 99%.

Mean Outcome Scores

Group A: -5 99% CI [-5.6, -4.5]
Group B: -7.9 99% CI [-8.4, -7.3]

Externalizing

⭐

Significant at 99% CI

Mean Outcome Scores at 99% CI

In the above chart, the dots are the mean outcome scores and the boxes represent the confidence intervals. Differences between mean outcomes scores exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

The difference between mean outcome scores between Group A and Group B exceeds chance expectations at CI 99%.

Mean Outcome Scores

Group A: -5 99% CI [-5.5, -4.4]
Group B: -7.9 99% CI [-8.5, -7.4]

Total Problems

⭐

Significant at 99% CI

Mean Outcome Scores at 99% CI

In the above chart, the dots are the mean outcome scores and the boxes represent the confidence intervals. Differences between mean outcomes scores exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

The difference between mean outcome scores between Group A and Group B exceeds chance expectations at CI 99%.

Mean Outcome Scores

Group A: -5 99% CI [-5.5, -4.4]
Group B: -7.9 99% CI [-8.4, -7.3]

ASEBA® P&O App™ ANOVA Characteristics Report: Group A vs. Group B

Internalizing

Mean Scores by Characteristic at 95% CI

In the above chart, the dots are the mean outcome scores by characteristic and the boxes represent the confidence intervals. Differences between characteristics exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within 18 - 35, the difference between Group A and Group B exceeds chance expectations at CI 99%.

Within 36 - 59, the difference between Group A and Group B exceeds chance expectations at CI 99%.

Externalizing

Mean Scores by Characteristic at 95% CI

In the above chart, the dots are the mean outcome scores by characteristic and the boxes represent the confidence intervals. Differences between characteristics exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within 18 - 35, the difference between Group A and Group B exceeds chance expectations at CI 99%.

Within 36 - 59, the difference between Group A and Group B exceeds chance expectations at CI 99%.

Total Problems

Mean Scores by Characteristic at 95% CI

In the above chart, the dots are the mean outcome scores by characteristic and the boxes represent the confidence intervals. Differences between characteristics exceeds chance expectations if the CIs of their means do not overlap. Lower mean outcome scores indicate better outcomes.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within Group A, the difference between 18 - 35 and 36 - 59 does not exceed chance expectations at CI 95%.

Within 18 - 35, the difference between Group A and Group B exceeds chance expectations at CI 99%.

Within 36 - 59, the difference between Group A and Group B exceeds chance expectations at CI 99%.

ASEBA® P&O App™ Appendix: ANOVA Comparison Tables

F-Tests

Scale	Test Name	F-Value	Critical Value p = 0.10	Critical Value p = 0.05	Critical Value p = 0.01	Outcome	Effect Size	Effect Size Category
Internalizing	Service	91.739	2.791	4.001	7.077	Significant at p < 0.01	54.692%	Large
Internalizing	Interactions	6.212	2.791	4.001	7.077	Significant at p < 0.05	7.556%	Medium
Externalizing	Service	97.594	2.791	4.001	7.077	Significant at p < 0.01	56.22%	Large
Externalizing	Interactions	3.714	2.791	4.001	7.077	Significant at p < 0.10	4.659%	Small
Total Problems	Service	104.581	2.791	4.001	7.077	Significant at p < 0.01	57.914%	Large
Total Problems	Interactions	7.224	2.791	4.001	7.077	Significant at p < 0.01	8.68%	Medium

Pairwise Comparisons

Scale	Test Name	Ranges	Outcome
Internalizing	Group A vs. Group B Mean	-5.585--4.465, -8.435--7.315	Significant at 99% CI
Internalizing	Group A Characteristics	-5.21--4.123, -6.228--4.897	Not Significant at 95% CI
Internalizing	Group B Characteristics	-8.683--7.428, -8.295--7.16	Not Significant at 95% CI
Internalizing	Group A vs. Group B Characteristic 1	-5.389--3.944, -8.89--7.221	Significant at 99% CI
Internalizing	Group A vs. Group B Characteristic 2	-6.447--4.678, -8.482--6.973	Significant at 99% CI
Externalizing	Group A vs. Group B Mean	-5.516--4.384, -8.491--7.359	Significant at 99% CI
Externalizing	Group A Characteristics	-5.216--4.117, -6.048--4.702	Not Significant at 95% CI
Externalizing	Group B Characteristics	-8.579--7.31, -8.483--7.335	Not Significant at 95% CI
Externalizing	Group A vs. Group B Characteristic 1	-5.398--3.935, -8.789--7.1	Significant at 99% CI
Externalizing	Group A vs. Group B Characteristic 2	-6.271--4.479, -8.673--7.145	Significant at 99% CI
Total Problems	Group A vs. Group B Mean	-5.504--4.446, -8.379--7.321	Significant at 99% CI
Total Problems	Group A Characteristics	-5.097--4.07, -6.191--4.934	Not Significant at 95% CI
Total Problems	Group B Characteristics	-8.593--7.407, -8.263--7.191	Not Significant at 95% CI
Total Problems	Group A vs. Group B Characteristic 1	-5.266--3.901, -8.788--7.212	Significant at 99% CI
Total Problems	Group A vs. Group B Characteristic 2	-6.399--4.726, -8.44--7.014	Significant at 99% CI

How to Create a Chi-Square Report:

Pearson's Chi-Square Test for Independence determines if the proportion of desirable outcomes between services exceed chance expectations. Outcomes are divided into categories based off of certain selectable criteria, and the proportion of those categories from each service is tested to see if the categorization is independent of the choice of service. **It is recommended that you have data from 50+ Assessed persons before attempting an Chi-Square Report.**

1. **Sign in to ASEBA P&O** at p-and-o.org or p-and-o.eu

2. Click on **Start a New Assessment**.

P&O App™ Assessments

Assessments can be done on individuals or can be done on different sets of services provided to individuals.

+	**Start a New Assessment**	Start a new assessment, either for an individual or a set of services.
📁	**Open an Existing Assessment**	Open a previously completed assessment, or one currently in-progress.
⤬	**Random Number Generator Tool**	Before services can be analyzed, they have to be assigned to individuals before the start of care. The Random Number Generator helps facilitate this process.

3. Create a name for you **New Chi-Square Assessment** and click **Next.**

Create New Assessment

Assessment Name
Chi-Square 1

Notes

GO BACK   NEXT

4. **Select a Data Source** - from Aseba-Web, Data file (Excel) or another P&O App Assessment.

For this example, I will be importing data from a Excel data file.

New Assessment - Select Data Source
Select where the data for the new assessment is coming from.

🌐	**ASEBA-Web™**	Import data directly from your ASEBA-Web™ account. Requires an active ASEBA-Web™ account and valid login credentials.
📁	**P&O App™ Data File**	Import data from a P&O App™ data file. Data files can be created from data in ASEBA-Web™, ASEBA-PC™ or ASEBA-Network™.
📊	**P&O App™ Assessment**	Use data from an existing P&O App™ assessment that you have previously created. This makes a full copy of the data separate from the original assessment.

GO BACK

5. **Select** the file to import

Importing data from Data Files
Browse and select the file you want to import

⬆	Select your file to upload.

GO BACK

ASEBA®
P&O App™

Home | My Account (PANDOTESTER) ▾ | Logou

Importing data from Data Files
Browse and select the file you want to import

⬆	Select your file to upload.	P&O_2_Service_Test.xlsx

50%

GO BACK

6. Select the Assessed persons you want to import or leave on **Select All and click Continue.**

Select Assessed Persons

Select the assessed persons that will be used in the analysis.

Search...

List of Available Assessed Persons

☑ Select All ⋮	Identification ↑ ⋮	Name ⋮	Date of Birth ⋮	Gender ⋮
☑	A1-A	Beau FLOWERS		Male
☑	A2-A	Albert GRIFFITH		Male
☑	A3-A	Jayden MCINTYRE		Male
☑	A4-A	Daniella COHEN		Female
☑	A5-A	Joe SUMMERS		Male
☑	A6-A	Saul GUZMAN		Male
☑	A7-A	Braxton MENDEZ		Male
☑	A8-A	Elisabeth BENDER		Female
☑	A9-A	Andres CARDENAS		Male
☑	A10-A	Madelyn ALEXANDER		Female
☑	A8-A	Elisabeth BENDER		Female
☑	A9-A	Andres CARDENAS		Male
☑	A10-A	Madelyn ALEXANDER		Female
☑	A11-A	Diana HENSON		Female
☑	A12-A	Ella NICHOLSON		Female
☑	A13-A	Dallas FLORES		Male
☑	A14-A	Blaine MCKEE		Male
☑	A15-A	Santiago NEWTON		Male
☑	A16-A	Ismael HINES		Male
☑	A17-A	Charlotte HUFF		Female
☑	A18-A	Tiara MORAN		Female
☑	A19-A	Sharon BARBER		Female
☑	A20-A	Caleb HODGE		Male

|◄ ◄ **1** 2 ► ►| 1 - 20 of 40 items

GO BACK CONTINUE

7. Click on **Chi-Square**

Select P&O App™ Assessment Type

Select which type of assessment you'd like to apply to your data set. E-Units are charged after this step.

👤	**Individual Scale Score**	Conduct an analysis for a single individual person. The goal of this analysis is to show whether or not the difference in scale scores between two assessments conducted at different dates exceed chance expectations.
⇥	**Chi-Square**	Pearson's Chi-Square Test for Independence determines if the proportion of desirable outcomes between services exceed chance expectations. Outcomes are divided into categories based off of certain selectable criteria, and the proportion of those categories from each service is tested to see if the categorization is independent of the choice of service.
⇥	**ANOVA**	Analysis of Variance determines if the mean outcome scores between services exceed chance expectations. Outcomes are also tested by characteristic to look for interaction effects. Covariates can be defined and may account for some of the difference.

GO BACK

8. **Name the services** you provide for the **Chi-Square Assessment Report.** In the example below, Group A and Group B are used. Click **Next.**

Create New Assessment

Create a new Chi-Square assessment.

Service Name

Group A

Service Name

Group B

Add more services ➕

GO BACK   NEXT

9.   Click on **Assign Client to Services**.

Chi-Square Assessment

Complete the steps below to create an Chi-Square Assessment report. Completed steps are highlighted.

🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶≡	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.

10.   **Assign services to clients. Please assign services under Service Method tab.** You may also choose **Select All** at the bottom of the page if the groupings are all using the same service on that page.

ANOVA - Assign Clients to Services

Search...

Select All ⋮	Identification ⋮	Name ⋮	Sex ⋮	Date of Birth ⋮	Service Method
☐	Adult-1-A	Yesenia BURCH	Female	1963/05/14	Group A ▾
☐	Adult-54-B	Cristina STANLEY	Female	1979/02/14	Group B ▾
☐	Adult-53-B	Bailey STANLEY	Female	1973/07/06	Group B ▾
☐	Adult-55-B	Anna YOUNG	Female	1961/10/10	Group B ▾
☐	Adult-51-B	Conor BRAY	Male	1999/08/25	Group B ▾
☐	Adult-52-B	Keegan DONOVAN	Male	1995/03/10	Group B ▾
☐	Adult-56-B	Braxton HALE	Male	1980/10/27	Group B ▾
☐	Adult-59-B	Tatum JONES	Female	1987/07/14	Group B ▾
☐	Adult-58-B	Luis POWELL	Male	1996/05/21	Group B ▾
☐	Adult-60-B	Tori PACHECO	Female	1980/11/23	Group B ▾
☐	Adult-57-B	Veronica FINLEY	Female	1992/05/21	Group B ▾
☐	Adult-44-B	Kayleigh MELENDEZ	Female	1994/03/22	Group B ▾

☐	Adult-79-B	Ryan CRUZ	Male	1975/05/03	Group B ▾
☐	Adult-78-B	Tyrone HESTER	Male	1978/08/31	Group B ▾
☐	Adult-80-B	Carolina WHITNEY	Female	1968/05/21	Group B ▾
☐	Adult-77-B	Carlos ZAVALA	Male	1973/07/17	Group B ▾
☐	Adult-70-B	Scott MIRANDA	Male	1978/07/18	Group B ▾
☐	Adult-64-B	Chad RUIZ	Male	1967/04/14	Group B ▾
☐	Adult-63-B	Evan ERICKSON	Male	1987/04/13	Group B ▾
☐	Adult-65-B	Alexis MERRITT	Female	1966/05/09	Group B ▾
☐	Adult-62-B	Rene TERRY	Male	1965/01/12	Group B ▾
☐	Adult-66-B	Paola DUFFY	Female	1996/07/15	Group B ▾
☐	Adult-69-B	Lauren JORDAN	Female	1964/01/06	Group B ▾
☐	Adult-68-B	Chelsey HAYS	Female	1984/08/25	Group B ▾

⏮ ◀ 1 **2** 3 4 ▶ ⏭   21 - 40 of 80 items

ASSIGN SELECTED TO GROUP A | ASSIGN SELECTED TO GROUP B ←

GO BACK   CONTINUE TO ASSESSMENT HOME

11. Please make sure to click on every page of **Assessed Persons** and assign them a service.

☐	Adult-39-A	Jayden HOANG	Male	1993/04/09	Group A ▾
☐	Adult-38-A	Jordon CONWAY	Male	1963/07/07	Group A ▾
☐	Adult-40-A	Brennan HERRERA	Male	1975/10/05	Group A ▾
☐	Adult-37-A	Bianca HOLT	Female	1988/05/03	Group A ▾
☐	Adult-30-A	Johnny ROGERS	Male	1987/12/27	Group A ▾
☐	Adult-24-A	Larry CASEY	Male	1973/03/05	Group A ▾
☐	Adult-23-A	Marcos KIDD	Male	1988/06/21	Group A ▾
☐	Adult-25-A	Alisha MCLAUGHLIN	Female	1984/04/20	Group A ▾
☐	Adult-22-A	Jenna DOWNS	Female	1998/10/21	Group A ▾
☐	Adult-26-A	Billy MCDANIEL	Male	1993/03/21	Group A ▾
☐	Adult-29-A	Dylan SWANSON	Male	1978/11/04	Group A ▾
☐	Adult-28-A	Hugo PONCE	Male	1975/04/09	Group A ▾
☐	Adult-27-A	Ahmad DUNCAN	Male	1978/11/04	Group A ▾

← ⏮ ◀ 1 2 3 **4** ▶ ⏭   61 - 80 of 80 items

ASSIGN SELECTED TO GROUP A | ASSIGN SELECTED TO GROUP B

GO BACK   CONTINUE TO ASSESSMENT HOME

12. Click on **Continue to Assessment Home.**

☐	Adult-30-A	Johnny ROGERS	Male	1987/12/27	Group A ▾
☐	Adult-24-A	Larry CASEY	Male	1973/03/05	Group A ▾
☐	Adult-23-A	Marcos KIDD	Male	1988/06/21	Group A ▾
☐	Adult-25-A	Alisha MCLAUGHLIN	Female	1984/04/20	Group A ▾
☐	Adult-22-A	Jenna DOWNS	Female	1998/10/21	Group A ▾
☐	Adult-26-A	Billy MCDANIEL	Male	1993/03/21	Group A ▾
☐	Adult-29-A	Dylan SWANSON	Male	1978/11/04	Group A ▾
☐	Adult-28-A	Hugo PONCE	Male	1975/04/09	Group A ▾
☐	Adult-27-A	Ahmad DUNCAN	Male	1978/11/04	Group A ▾

⏮ ◀ 1 2 3 **4** ▶ ⏭   61 - 80 of 80 items

ASSIGN SELECTED TO GROUP A | ASSIGN SELECTED TO GROUP B

GO BACK   CONTINUE TO ASSESSMENT HOME

13. Click on **Assign Date Numbers to Forms.**

Chi-Square Assessment

Complete the steps below to create an Chi-Square Assessment report. Completed steps are highlighted.

🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◗	**4. Classify Outcomes of Clients**	Choose one of two strategies to classify the outcomes into two categories. The strategies are "5-Point Drop in T-Score" or "Cross from Borderline to Normal".

14. On this page, please assign Date 1 and Date 2 to **each Assessed person** for this Chi-Square Report. After assigning Date 1 and Date 2, please click on **Next** to go the the next Assessed Person in the list. The dates should appear in order of oldest to newest on the list. Once you have completed assigning dates to all Assessed Persons, please click on **Continue to Assessment Home**. This step will take the most time.

Chi-Square Assign Date # to Forms

For each client you must select the Intake (Date1) form and the Last (Date 2) form

PREVIOUS   Yesenia BURCH   NEXT   ⟳

1/8

↓ Forms for Yesenia BURCH ↓

Eval Id	Form Type	Informant	Date Completed	Int T	Ext T	Total T	Date
IN-2	ASR 18-59	Adult-1-A	2018/05/16	62	71	66	⦿ Date 1 ◯ Date 2
PI-3	ASR 18-59	Adult-1-A	2018/11/11	56	65	60	◯ Date 1 ⦿ Date 2

|◄ ◄ **1** ► ►| 1 - 2 of 2 items

GO BACK   CONTINUE TO ASSESSMENT HOME

Chi-Square Assign Date # to Forms

For each client you must select the Intake (Date1) form and the Last (Date 2) form

	PREVIOUS	Ahmad DUNCAN	NEXT		C

80/80

↓ Forms for Ahmad DUNCAN ↓

Eval Id	Form Type	Informant	Date Completed	Int T	Ext T	Total T	Date
IN-1	ASR 18-59	Adult-27-A	2018/07/30	61	65	62	◉ Date 1 ○ Date 2
PI-1	ASR 18-59	Adult-27-A	2019/02/02	55	59	56	○ Date 1 ◉ Date 2

|◄ ◄ 1 ► ►| 1 - 2 of 2 items |

GO BACK

CONTINUE TO ASSESSMENT HOME

15. Click on Classify Outcomes of Clients.

Chi-Square Assessment

Complete the steps below to create an Chi-Square Assessment report. Completed steps are highlighted.

🔒	**1. Import forms data**	Import data directly from ASEBA-Web™ or from ASEBA-Web™, ASEBA-PC™, or ASEBA-Network™ via a data file. This step is now locked.
🚶=	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◐	**4. Classify Outcomes of Clients**	Choose one of two strategies to classify the outcomes into two categories. The strategies are "5-Point Drop in T-Score" or "Cross from Borderline to Normal".

47

16. Click on either **Drop of 5 points in the scale T score or Scale T score went from Clinical or Borderline-Clinical to Normal**. In the example below, Drop of 5 points was chosen.

Chi-Square Outcome Classification

P&O App™ will go through all assessed persons automatically classifying outcomes as "Good" or "Not-Good".

Method for automatic classification of outcomes

⦿ Drop of 5 points in the scale T Score
◯ Scale T Score went from Clinical or Borderline-Clinical to Normal

Id	Name	Int Change	Int Outcome	Ext Change	Ext Outcome	Total Change	Total Outcome
36	Yesenia BURCH	62-56=6	Good	71-65=6	Good	66-60=6	Good
36	Bailey DEAN	57-62=-5	Not-Good	65-71=-6	Not-Good	60-66=-6	Not-Good
36	Bryanna HATFIELD	56-63=-7	Not-Good	58-65=-7	Not-Good	56-63=-7	Not-Good
36	Shayla YOUNG	78-72=6	Good	70-65=5	Good	74-68=6	Good
36	Tate LONG	55-61=-6	Not-Good	58-64=-6	Not-Good	56-62=-6	Not-Good
36	Ronnie RUIZ	68-62=6	Good	76-69=7	Good	71-65=6	Good
36	Deshawn RUIZ	59-64=-5	Not-Good	63-68=-5	Not-Good	60-65=-5	Not-Good

Each page may be viewed. Click on **Continue to Assessment Home**.

Id	Name	Int Change	Int Outcome	Ext Change	Ext Outcome	Total Change	Total Outcome
36	Ruben BALLARD	61-67=-6	Not-Good	56-61=-5	Not-Good	58-64=-6	Not-Good
36	Desiree TRUJILLO	71-63=8	Good	65-58=7	Good	68-60=8	Good
36	Clarissa LEWIS	62-58=4	Not-Good	70-65=5	Good	65-61=4	Not-Good
36	Cierra ARCHER	61-64=-3	Not-Good	60-63=-3	Not-Good	60-63=-3	Not-Good
36	Marcus MOSS	62-56=6	Good	66-59=7	Good	63-57=6	Good
36	Jenna DOWNS	66-61=5	Good	64-59=5	Good	65-60=5	Good
36	Marcos KIDD	60-66=-6	Not-Good	56-62=-6	Not-Good	58-64=-6	Not-Good
36	Larry CASEY	61-55=6	Good	69-63=6	Good	64-58=6	Good
36	Alisha MCLAUGHLIN	61-66=-5	Not-Good	56-61=-5	Not-Good	58-63=-5	Not-Good
36	Billy MCDANIEL	68-65=3	Not-Good	67-64=3	Not-Good	67-64=3	Not-Good
36	Ahmad DUNCAN	61-55=6	Good	65-59=6	Good	62-56=6	Good

|◀ ◀ **1** 2 3 4 ▶ ▶| 1 - 20 of 80 items

GO BACK

CONTINUE TO ASSESSMENT HOME

17. Click on Verify Assessment.

🚶	**2. Assign Clients to Services**	Select which service the assessed person received between Date 1 and Date 2.
📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◕	**4. Classify Outcomes of Clients**	Choose one of two strategies to classify the outcomes into two categories. The strategies are "5-Point Drop in T-Score" or "Cross from Borderline to Normal".
⊘	**5. Verify Assessment**	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.
〰	**6. Generate the Chi-Square Assessment**	Generate the Chi-Square assessment report.

GO BACK   BROWSE MY DATA   CLOSE ASSESSMENT

If the Verification is successful, you will see the window below. If it is not, the verification will tell you want his wrong and to go back and edit the issue. Please click on **Continue .**

Verification

✔✔   Assessment verified successfully!

GO BACK   CONTINUE

An example of an error.

Verification

❗ Minimum count of 'Good' outcomes for the Internalizing Scale in service Group B is less than 5!

❗ Minimum count of 'Good' outcomes for the Externalizing Scale in service Group B is less than 5!

❗ Minimum count of 'Good' outcomes for the Total Problems Scale in service Group B is less than 5!

❗ Minimum count of 'Good' outcomes for the Internalizing Scale in service Group A is less than 5!

GO BACK   CONTINUE

18. Click on **Generate the Chi-Square Assessment** tab.

📅	**3. Assign Date Numbers to Forms**	Group forms with similar dates, such as setting the earliest dates to Date 1 (Intake) and subsequent dates to Date 2, Date 3, etc. up to Date 9, if applicable.
◑	**4. Classify Outcomes of Clients**	Choose one of two strategies to classify the outcomes into two categories. The strategies are "5-Point Drop in T-Score" or "Cross from Borderline to Normal".
⊘	**5. Verify Assessment**	Verify that there is sufficient data to run a proper report, and display any errors or inconsistencies.
↝	**6. Generate the Chi-Square Assessment**	Generate the Chi-Square assessment report.

GO BACK   BROWSE MY DATA   CLOSE ASSESSMENT

Below is an example of a **Chi-Square Report**.

◄ 1 / 2 ► ►► 🗋 ⬇▾ 🖨 📃 🔻 ⊕ ⊖ ◼ 🔍

ASEBA® P&O App™ Chi-Square Report: Group A vs. Group B

Internalizing

⭐

Significant at p < 0.05

Outcomes

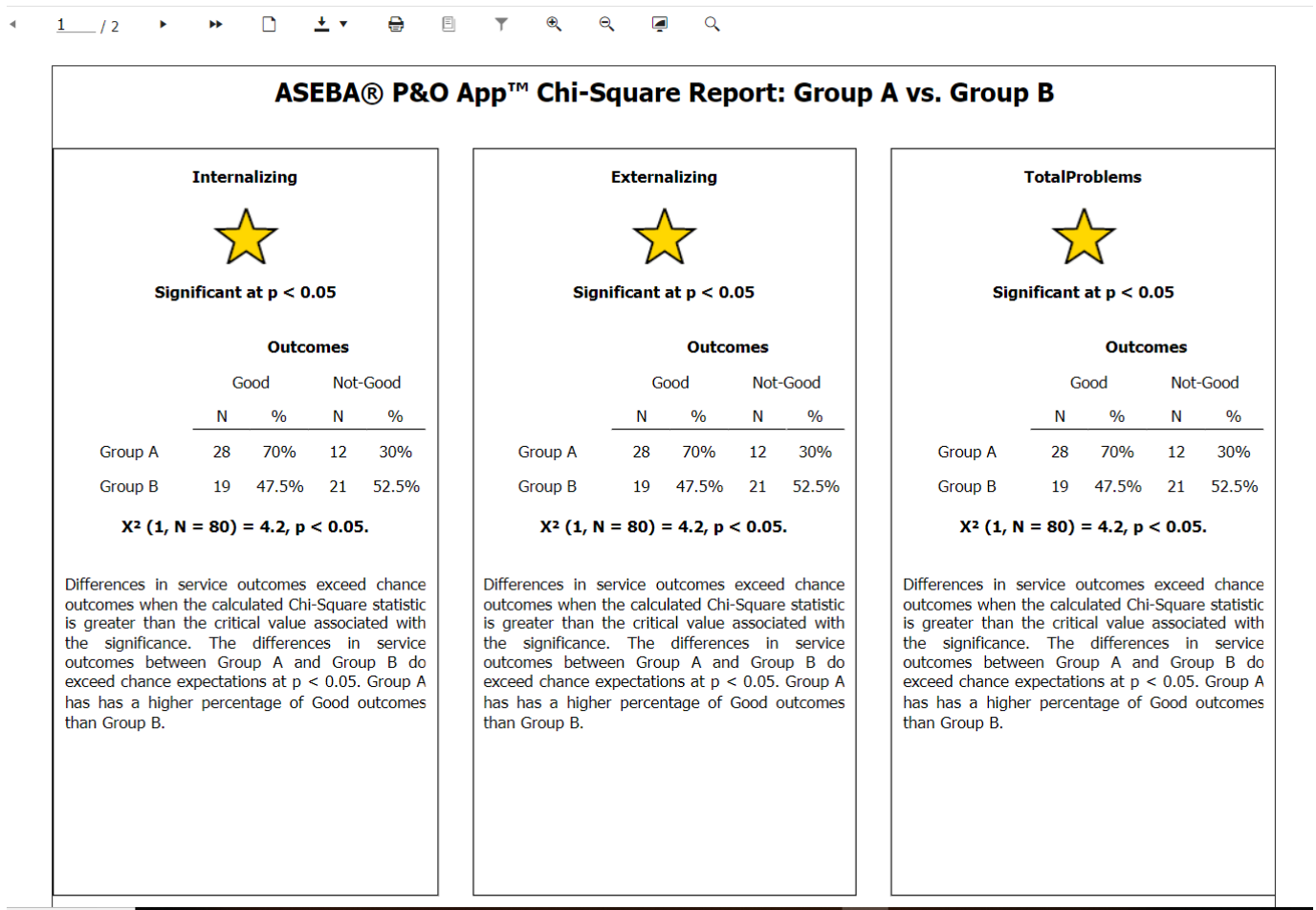|	Good		Not-Good	
	N	%	N	%
Group A	28	70%	12	30%
Group B	19	47.5%	21	52.5%

X^2 (1, N = 80) = 4.2, p < 0.05.

Differences in service outcomes exceed chance outcomes when the calculated Chi-Square statistic is greater than the critical value associated with the significance. The differences in service outcomes between Group A and Group B do exceed chance expectations at p < 0.05. Group A has has a higher percentage of Good outcomes than Group B.

Externalizing

⭐

Significant at p < 0.05

Outcomes

	Good		Not-Good	
	N	%	N	%
Group A	28	70%	12	30%
Group B	19	47.5%	21	52.5%

X^2 (1, N = 80) = 4.2, p < 0.05.

Differences in service outcomes exceed chance outcomes when the calculated Chi-Square statistic is greater than the critical value associated with the significance. The differences in service outcomes between Group A and Group B do exceed chance expectations at p < 0.05. Group A has has a higher percentage of Good outcomes than Group B.

TotalProblems

⭐

Significant at p < 0.05

Outcomes

	Good		Not-Good	
	N	%	N	%
Group A	28	70%	12	30%
Group B	19	47.5%	21	52.5%

X^2 (1, N = 80) = 4.2, p < 0.05.

Differences in service outcomes exceed chance outcomes when the calculated Chi-Square statistic is greater than the critical value associated with the significance. The differences in service outcomes between Group A and Group B do exceed chance expectations at p < 0.05. Group A has has a higher percentage of Good outcomes than Group B.

ASEBA® P&O App™ Chi-Square Report: Group A vs. Group B Appendix: Comparison Tables

Internalizing

Group A Good	Group A Not-Good	Group A Total	Expected Freq. Group A Good	Expected Freq. Group A Not-Good	Group B Good	Group B Not-Good	Group B Total	Expected Freq. Group B Good	Expected Freq. Group B Not-Good	Degrees of Freedom	X² Statistic	Critical Value
28	12	40	23.5	16.5	19	21	40	23.5	16.5	1	4.178	3.841

Externalizing

Group A Good	Group A Not-Good	Group A Total	Expected Freq. Group A Good	Expected Freq. Group A Not-Good	Group B Good	Group B Not-Good	Group B Total	Expected Freq. Group B Good	Expected Freq. Group B Not-Good	Degrees of Freedom	X² Statistic	Critical Value
28	12	40	23.5	16.5	19	21	40	23.5	16.5	1	4.178	3.841

Total Problems

Group A Good	Group A Not-Good	Group A Total	Expected Freq. Group A Good	Expected Freq. Group A Not-Good	Group B Good	Group B Not-Good	Group B Total	Expected Freq. Group B Good	Expected Freq. Group B Not-Good	Degrees of Freedom	X² Statistic	Critical Value
28	12	40	23.5	16.5	19	21	40	23.5	16.5	1	4.178	3.841

How to Use the Random Number Generator Tool:

Before Services can be analyzed, they have to be assigned to individuals before the start of care. The Random Number Generator helps facilitate this process.

    1.   **Sign in to ASEBA P&O** at p-and-o.org or p-and-o.eu

    2.   Click on **Random Number Generator Tool.**

P&O App™ Assessments

Assessments can be done on individuals or can be done on different sets of services provided to individuals.

+	**Start a New Assessment**	Start a new assessment, either for an individual or a set of services.
📁	**Open an Existing Assessment**	Open a previously completed assessment, or one currently in-progress.
⤬	**Random Number Generator Tool**	Before services can be analyzed, they have to be assigned to individuals before the start of care. The Random Number Generator helps facilitate this process.

    3.   Choose **Random Blocks**, **Simple Number at Random** or **Suggest Service at Random.**

Random Number Generator Tool

◧	**Random Blocks**	Use random blocks to assign services.
▭	**Simple Number at Random**	Generate a simple random number.
🚲	**Suggest Service at Random**	Provide a list of services and have P&O App™ suggest one at random.

GO BACK

3.   If you choose, **Random Blocks**,

Random Number Generator Tool

📕	**Random Blocks**	Use random blocks to assign services.
🖥	**Simple Number at Random**	Generate a simple random number.
🚲	**Suggest Service at Random**	Provide a list of services and have P&O App™ suggest one at random.

4.   Please fill the needed information. Click on **Select Random Blocks**.

Random Blocks — Use random blocks to assign services.

Number of blocks
4

Service Name
Group A

Service Name
Group B

Service Name
Group C

Service Name
Group D

Range for blocks
1

To
Range for blocks
80

GO BACK   SELECT RANDOM BLOCKS

Results

2,15,18,22,23,25,28,31,36,38,39,51,55,60,63,64,68,71,75,77,6,9,12,13,14,1 6,20,30,33,37,40,41,42,44,47,53,54,59,70,79,5,8,11,19,24,26,27,29,32,34,4 6,49,57,61,62,65,66,69,72,78,1,3,4,7,10,17,21,35,43,45,48,50,52,56,58,67,7 3,74,76,80

- Group A: 2, 15, 18, 22, 23, 25, 28, 31, 36, 38, 39, 51, 55, 60, 63, 64, 68, 71, 75, 77
- Group B: 6, 9, 12, 13, 14, 16, 20, 30, 33, 37, 40, 41, 42, 44, 47, 53, 54, 59, 70, 79
- Group C: 5, 8, 11, 19, 24, 26, 27, 29, 32, 34, 46, 49, 57, 61, 62, 65, 66, 69, 72, 78
- Group D: 1, 3, 4, 7, 10, 17, 21, 35, 43, 45, 48, 50, 52, 56, 58, 67, 73, 74, 76, 80

CLOSE

5. If you choose **Simple Number at Random**, please fill in the needed information and click on **Select Random Number**.

Simple Number at Random — Generate a simple random number.

Range for random number
1

To
Range for random number
80

GO BACK   SELECT RANDOM NUMBER

Results

70

CLOSE

6. If you choose **Suggest Service at Random**, please fill in the needed information and click on **Suggest Service at Random**.

Random Number Generator Tool

Random Blocks — Use random blocks to assign services.

Simple Number at Random — Generate a simple random number.

Suggest Service at Random — Provide a list of services and have P&O App™ suggest one at random.

GO BACK

Suggest Service at Random — Provide a list of services and have P&O App™ suggest one at random.

Number of Services
2

Service Name
Group A

Service Name
Group B

GO BACK   SUGGEST SERVICE AT RANDOM

Results

Group B

CLOSE