Bamboo Health

PMP AWARxE®

Registered User Guide

Montana Prescription Drug Registry (MPDR)

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1 Document Overview

The PMP AWARxE *Registered User Guide* provides step-by-step instructions for healthcare professionals and other users requesting data from the Montana Prescription Drug Registry (MPDR) database, the state's prescription monitoring program (PMP). The MPDR is administered and maintained by the Montana Board of Pharmacy, within the Montana Department of Labor and Industry. This document includes such topics as:

- Registering for an account
- Creating patient requests
- Viewing request status
- Viewing patient reports
- Appointing a delegate to request and receive information on behalf of a prescriber or dispenser
- Managing your account

1.1 What is a Registered User/Requestor?

A requestor is a PMP AWARxE account type held by those who use PMP AWARxE to review patients' prescription history. The MPDR provides a list of controlled substance prescriptions dispensed to patients to healthcare professionals to use as a tool to help improve patient safety. The information may also be used to identify possible misuse ordiversion of controlled substances.

A list of available roles that fall into the requestor category is provided below:

Healthcare Professional Registered Users

- Physician (including Resident and Compact Licensees)
- Dentist
- Optometrist
- Podiatrist
- Naturopathic Physician
- Physician Assistant
- Advanced Practice Registered Nurse with Prescriptive Authority
- Pharmacist
- Pharmacist's Delegate – Licensed
- Pharmacist's Delegate – Unlicensed
- Prescriber Delegate – Licensed
- Prescriber Delegate – Unlicensed

Note: *Prescribers and Pharmacists with Emergency Healthcare Registration issued in Montana are included in the online registration and access.*

In addition, authorized representatives of Medicaid, Medicare, Veterans Affairs, Indiana Health Service, and Tribal Health may apply for online access if they do not have a Montana license.

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Other Users

Users who need to register online to request information through the Law Enforcement Insight Report access, but do not have patient search authority, include the following:

- Federal, State, Tribal, or Local Law Enforcement – pursuant to an investigative subpoena.
- State Licensing Board Investigators – pursuant to an active complaint and investigation of drug misuse or drug diversion.

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2 Registration

This chapter provides an overview of the PMP AWARxE registration process as well as detailed instructions for registering for a **Registered User** account and registering for a **Delegate** account.

2.1 Registration Overview

The registration process is comprised of four sections: Register for an Account, User Role Selection, User Demographics, and Review Profile Details. All four sections must be completed before your registration is successfully submitted for processing.

- **Register for an Account-** Your email address will be your username, so each individual must register for an account with a unique and private email address.

  Note: Registered User Accounts *(Prescribers and Pharmacists) from the previous system may have been transferred. Please attempt to access your account by following the Reset Password instructions located in this guide using the email address associated with your previous account.* ***All Delegates*** *of the previous system will need to create a new account.*

- **User Role Selection –** A user can choose the role of a delegate (licensed and unlicensed) to generate reports on behalf of a supervisor. All queries run by delegates are attributed to the supervisor for whom they ran the report.

More detail about each registration section is provided below.

2.2 Registering for an Account

To request a new account in PMP AWARxE:

1. Navigate to https://montana.pmpaware.net/login.
   The **Log In** page is displayed as shown on the following page.

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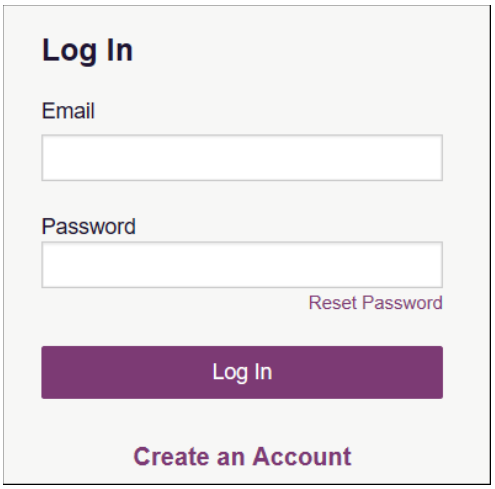
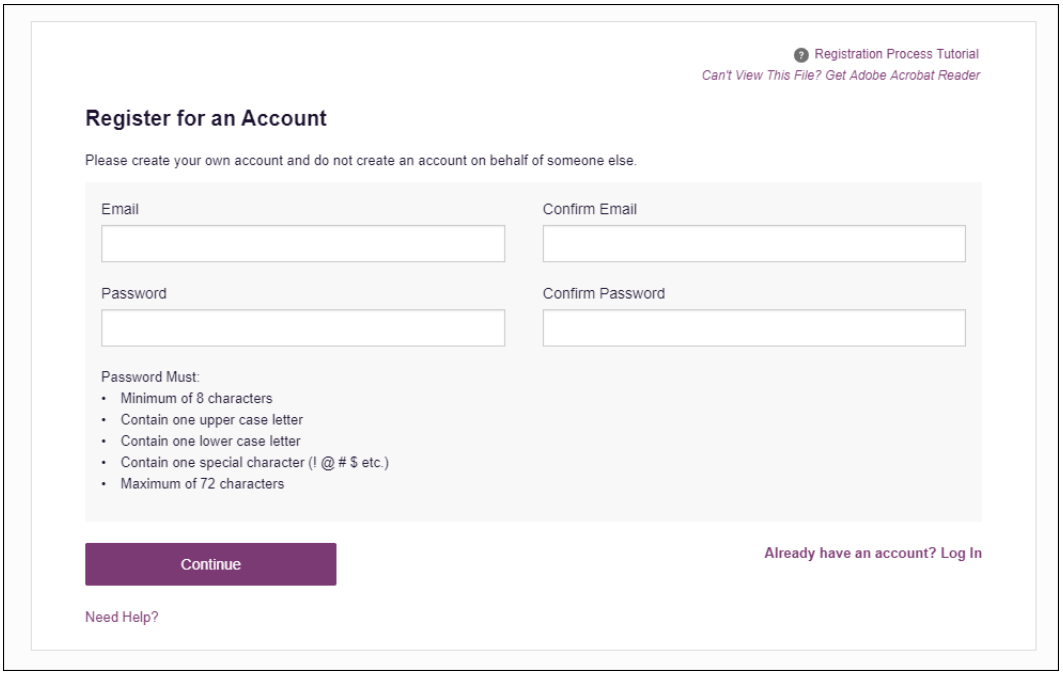


2. Click **Create an Account**.

   The **Register for an Account** page is displayed.



Note: *A tutorial describing the complete registration process is available by clicking the* ***Registration Process Tutorial*** *link located in the top right corner of the page.*

3. Enter your current, valid email address in the **Email** field, then re-enter it in the **Confirm Email** field. The email address you provide will be your username for logging in to the system.

   Note: *If the email addresses you entered do not match, an error message is displayed.*

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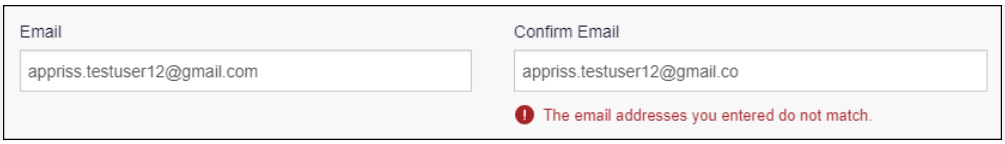
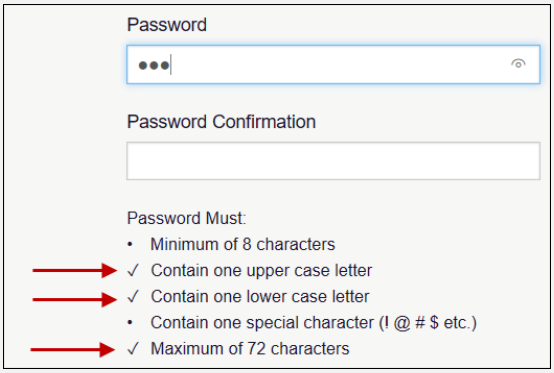


4. Enter a password in the **Password** field, using the password requirements provided below, then re-enter it in the **Password Confirmation** field.

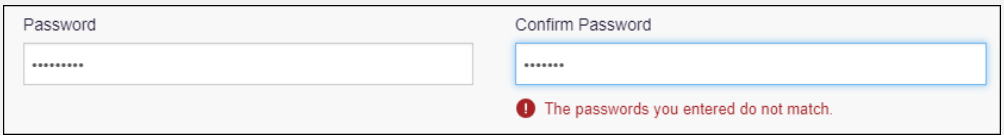
Passwords must contain:

- *At least eight (8) characters*
- *One (1) uppercase letter*
- *One (1) lowercase letter*
- *One (1) special character such as !, @, #, $, etc.*
- *No more than 72 characters*

Note: *A checkmark appears next to each requirement as it is met.*



If the passwords you entered do not match, an error message is displayed.



5. Click **Continue**.

   The **Account Registration: User Role Selection** page is displayed.

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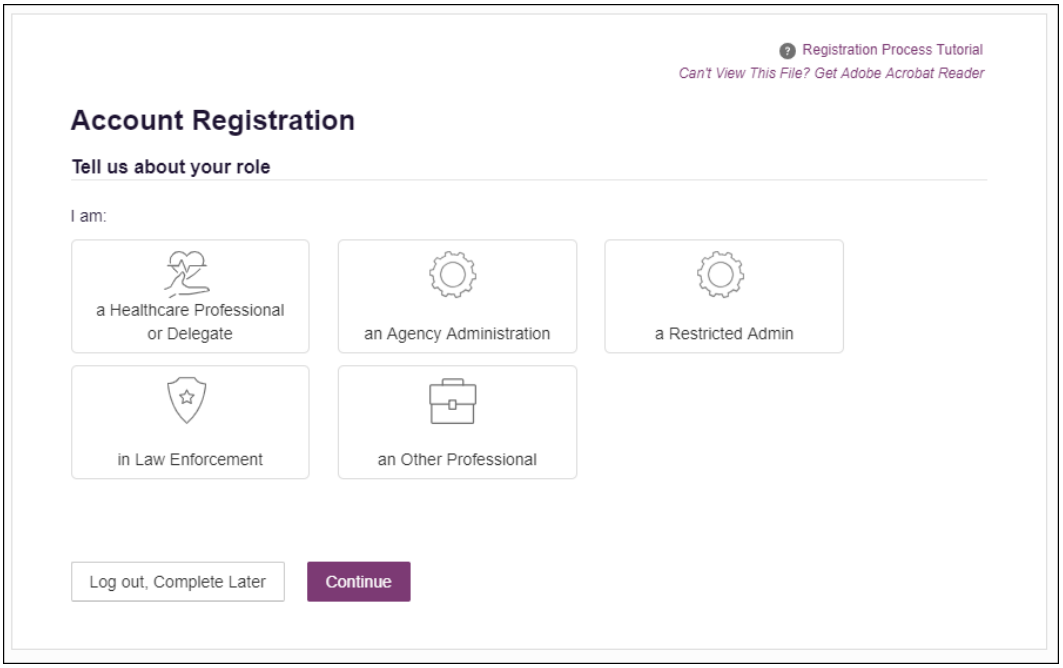
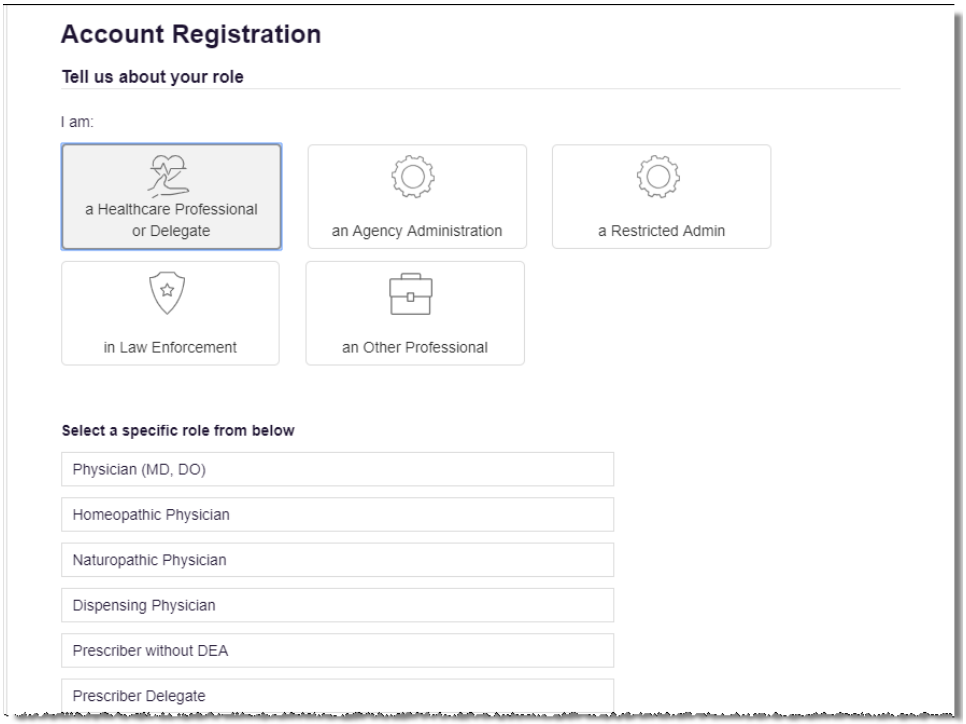


Note: *At this point in the registration process, you may click* ***Log Out, Complete Later*** *to save your login credentials and complete your registration at a later time. When you are ready to complete your registration, navigate to https://montana.pmpaware.net, then enter the username and password you established in the previous steps.*

6. Click to select the user role category that best describes your user role type (e.g., Healthcare Professional or Delegate, Law Enforcement, etc.).

   The list of available user roles in that category is displayed.



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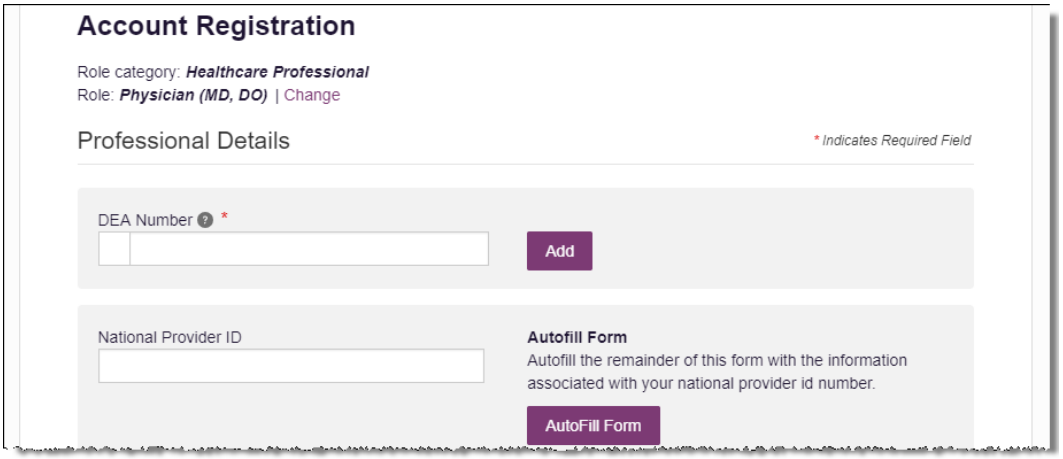
Notes:

- *The roles displayed on this page may vary depending on your state's configurations.*
- *If you are registering as a delegate, please ensure that you select the appropriate delegate user role (e.g., Prescriber Delegate, Pharmacist Delegate, etc.).*
- *If you do not see an applicable role for your profession, the State Administrator has not configured a role of that type and potentially may not allow users in that profession access to PMP AWARxE. Please contact your State Administrator for more information.*

7. Click to select your user role, then click **Continue**.

   The **Account Registration: User Demographics** page is displayed as shown on the following page.



Notes:

- *If you selected the wrong user role, you may click **Change**, located at the top of the page next to the user role you selected, at any time to return to the previous page and select the correct user role. Please be aware that changing your user role will cause you to lose any information you entered on the registration form.*
- *The information you are required to enter on this page may vary by state. Required fields for your state are marked with a red asterisk (*****). You may use the information provided below as a guideline. However, the same fields will not be displayed or required for every user role.*

   a. The **Professional Details** section of this page allows you to enter such information as your DEA number, NPI number, professional license number, license type, and healthcare specialty.

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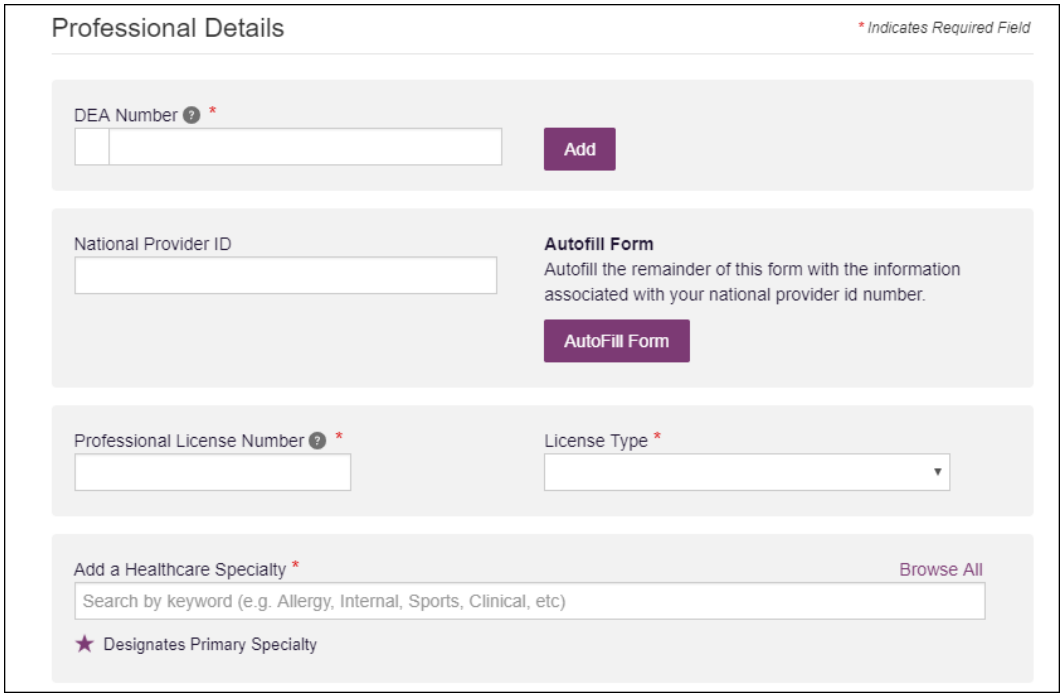
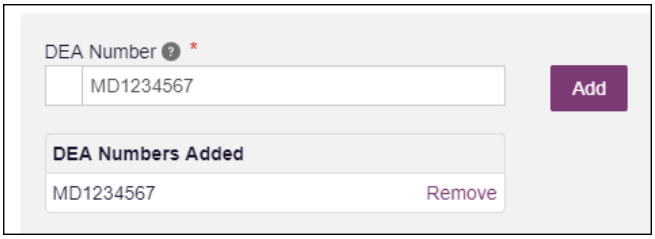


- To add your DEA number, enter it in the **DEA Number** field, and then click **Add**. You may add multiple DEA numbers, if permitted by your state, by repeating this process for each DEA number you wish to add. Once you click **Add**, the DEA number is displayed beneath the **DEA Number** field. If necessary, you may click **Remove** next to a DEA number to remove it.



- If you have an NPI number, you can enter it in the **National Provider ID** field, then click **Autofill Form** to auto-populate the form with the demographic information associated with your NPI number.
- To search for your specialty, begin typing it in the **Add a Healthcare Specialty** field. A list of specialties matching your search criteria is displayed. Click to select your specialty from the list. You may repeat this process to select multiple specialties.

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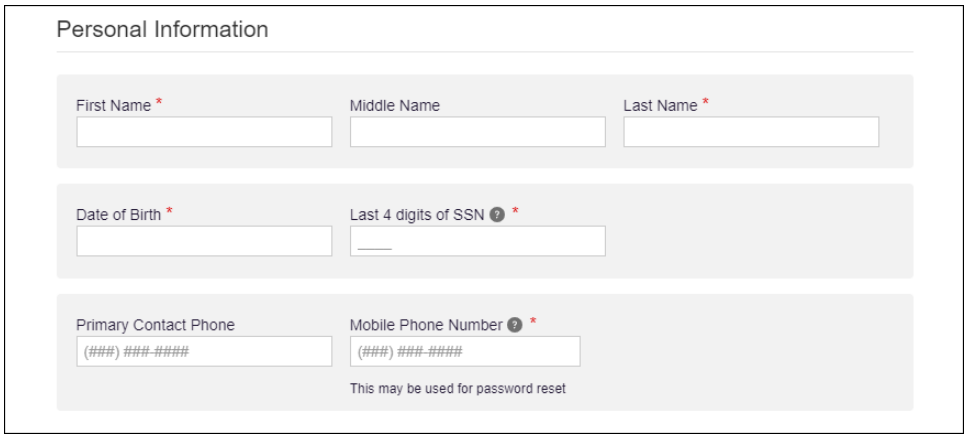
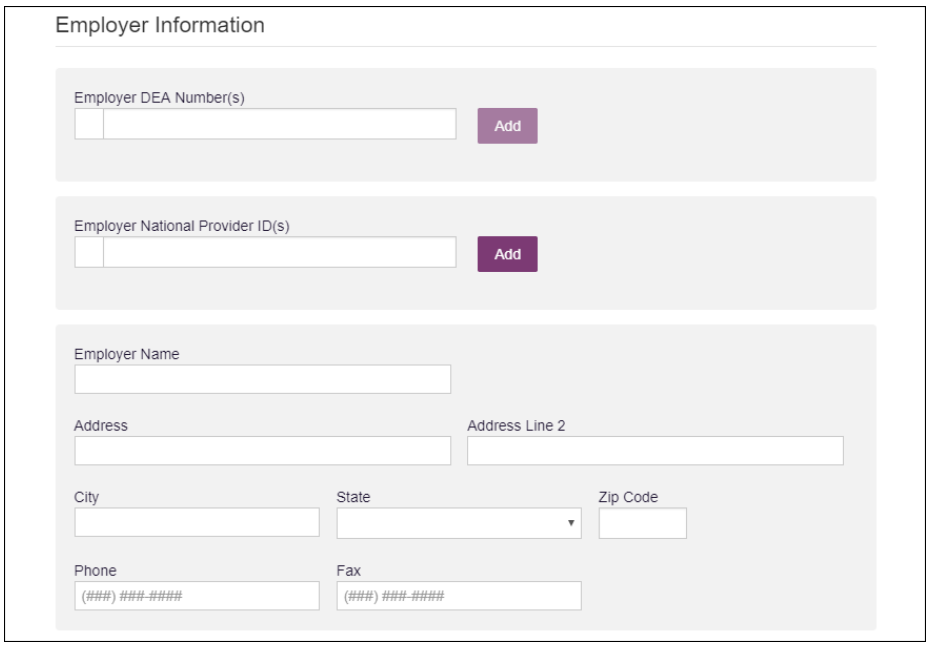
Once you have selected your specialty from the list, it is displayed beneath the **Add a Healthcare Specialty** field. If necessary, you may click the "*x*" to remove it.

b. The **Personal Information** section of this page allows you to enter your personal contact information such as first and last name, date of birth, last four digits of your Social Security Number (SSN), primary contact phone number, and mobile phone number.



c. The **Employer Information** section of this page allows you to enter information about your employer such as DEA number, NPI number, name, address, phone number, and fax number.



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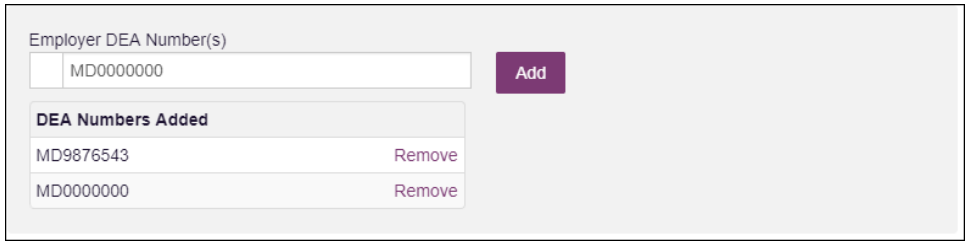
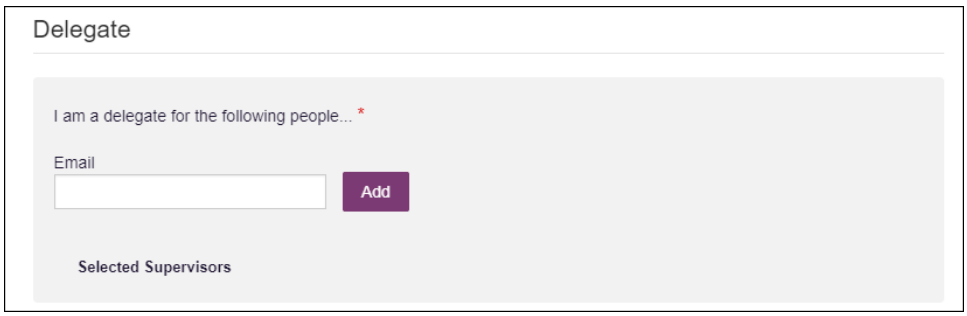
- To add your employer's DEA or NPI number, enter it in the appropriate field, and then click **Add**. You may add multiple DEA and/or NPI numbers, if permitted by your state, by repeating this process for each DEA/NPI number you wish to add. Once you click **Add**, the DEA/NPI number is displayed beneath the appropriate field. If necessary, you may click **Remove** next to a DEA/NPI number to remove it.

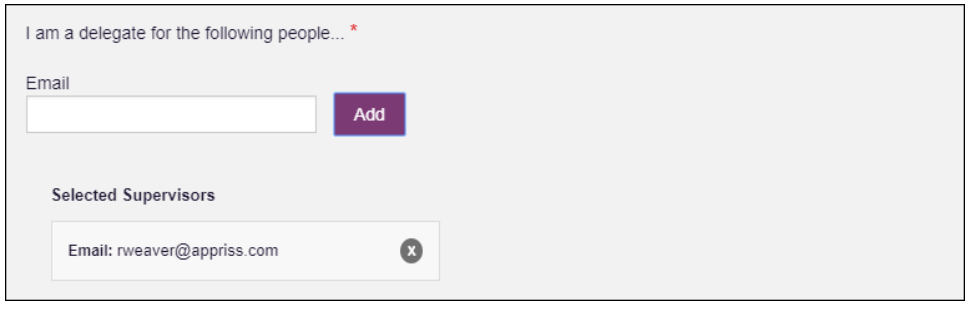


d. If you selected a delegate user role (e.g., Prescriber Delegate, Pharmacist Delegate, etc.), you must add your supervisor(s) in the **Delegate** section of this page.

Note: *This section is only displayed if you selected a delegate user role.*



- To add a supervisor, enter their current, valid email address in the **Email** field, and then click **Add**. You may add multiple supervisors by repeating this process. Once you click **Add**, the supervisor's email address is displayed beneath the **Email** field. If necessary, you may click the "*x*" to remove it.



Notes:

- *The supervisor must already have a registered account with your state's PMP.*
- *Ensure that you enter the supervisor's email address correctly and that it is a valid email address.*

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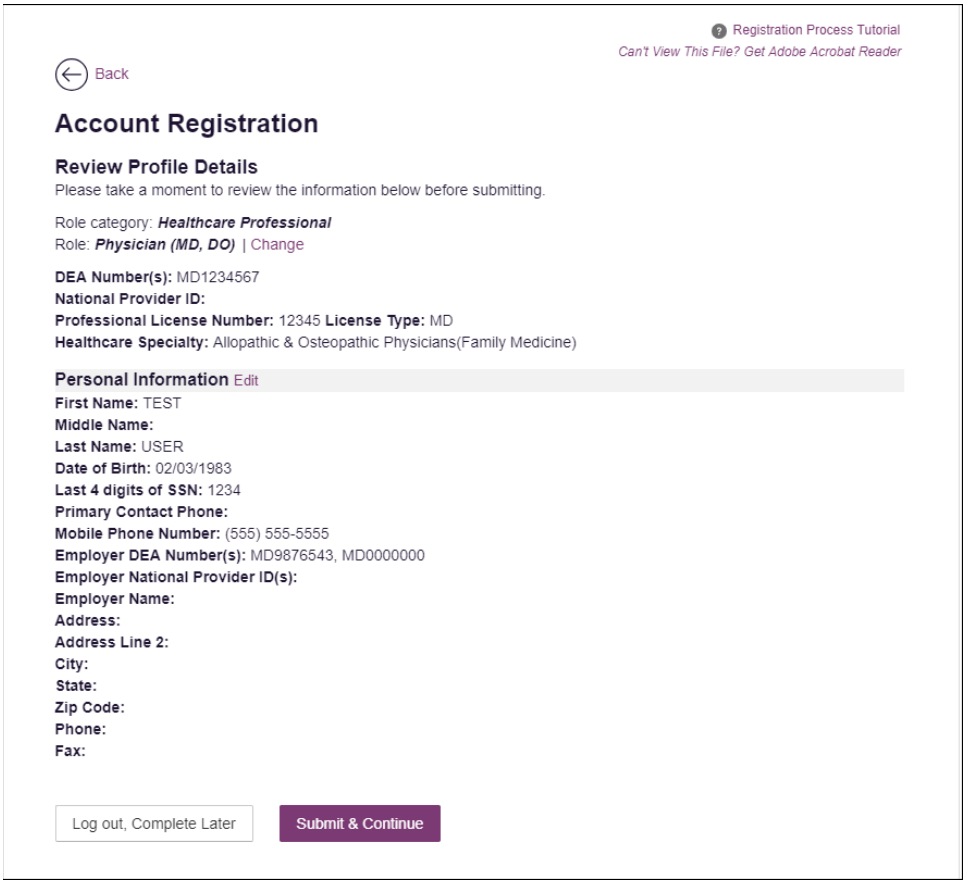
- *You will not be able to perform Patient Requests on behalf of a supervisor until that supervisor has approved you as a delegate.*

8. Once you have entered all required information, click **Continue**.

   ***Note:** At this point in the registration process, you may click **Log Out, Complete Later** to save your login credentials and complete your registration at a later time. When you are ready to complete your registration, navigate to https://montana.pmpaware.net, then enter the username and password you established in the previous steps.*

   The **Account Registration: Review Profile Details** page is displayed.



9. Review your information to ensure it is correct before submitting your registration.
   a. If you need to change your user role, click **Change**, located at the top of the page next to the role you selected.

      ***Note**: Changing your user role will cause you to lose any information you entered on the registration form.*

   b. If you need to edit your personal information, click **Edit** next to the **Personal Information** section header.
10. If all information is correct, click **Submit & Continue**.

    The Set Up Multi-Factor Authentication page is displayed.

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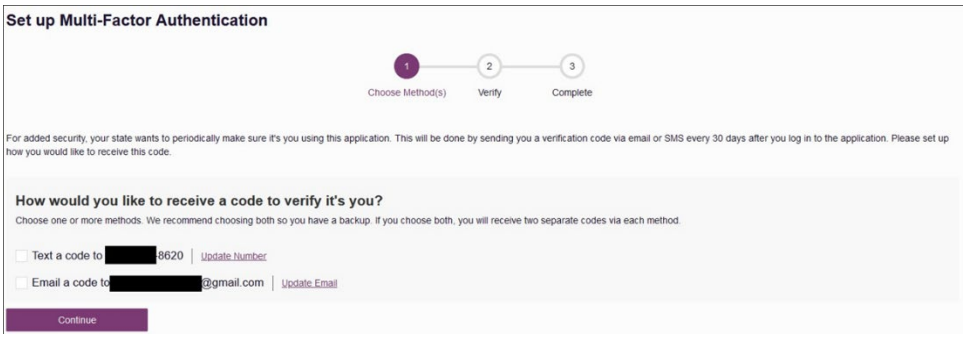
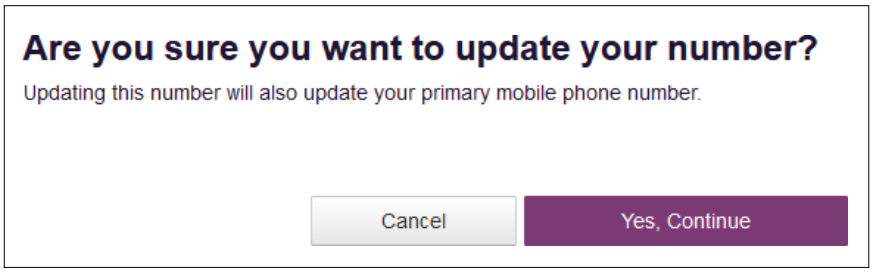


11. Verify that the mobile phone number and email address displayed on this page is correct.
    a. If both are correct, continue to Step 12.
    b. If you need to update your mobile phone number:
        i. Click **Update Number.**

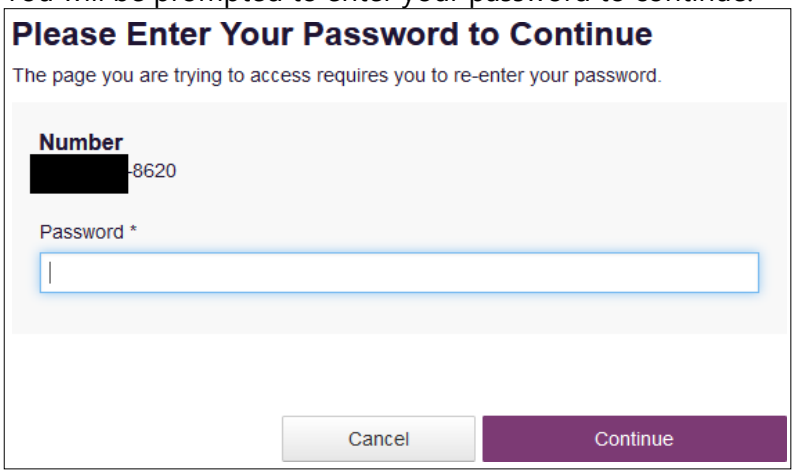
        You will be prompted to confirm that you want to update your mobile phone number.

        Note: *Updating this phone number will also update your primary mobile phone number.*



        ii. Click **Yes, Continue.**

        You will be prompted to enter your password to continue.



        iii. Enter the password you created in Step 4, then click **Continue.**

        Note: *If you no longer have the password, you can reset it by following the instructions in the Reset Password section of this document.*

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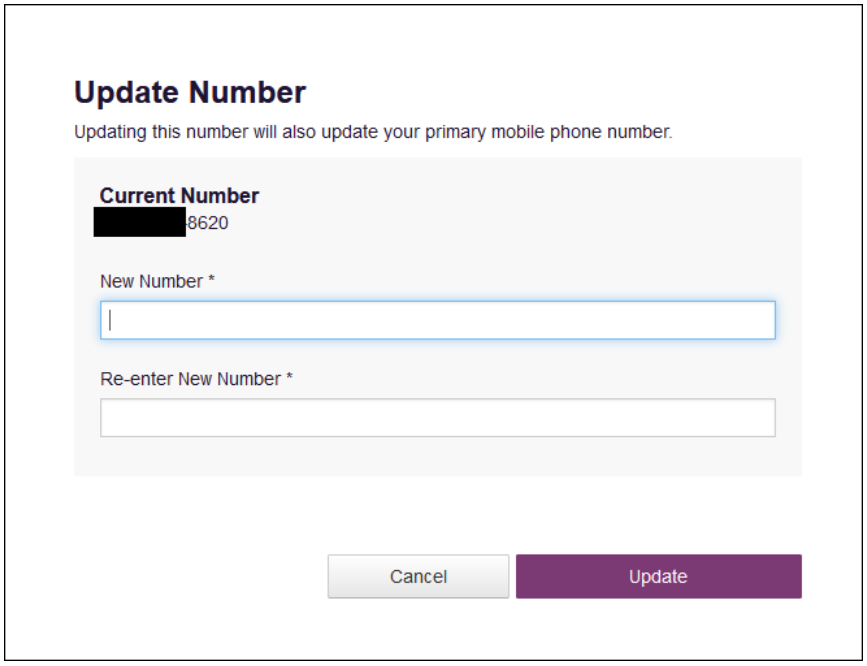
Once you have successfully entered your password, you will be prompted to enter your new mobile phone number.



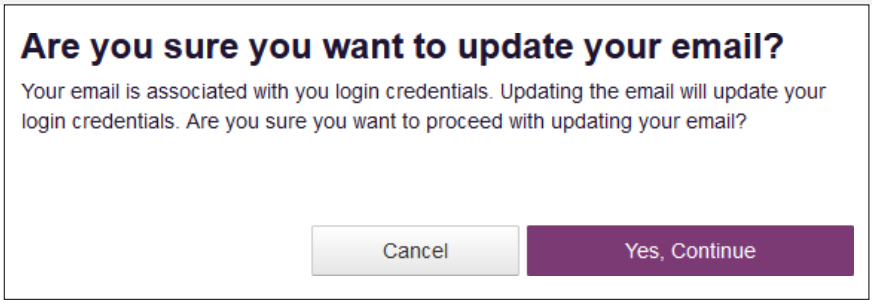
iv. Enter your new mobile phone number in the **New Number** field, then re-enter it in the **Re-enter New Number** field.

v. Click **Update.**
You will be returned to the **Set Up Multi-Factor Authentication** page. If your phone number and email address are correct, continue to Step 12. In the alternative, if you need to update your email address, continue to Step C.

c. If you need to update your email address:

i. Click **Update Email.**
You will be prompted to confirm you want to update your email address.

Note: *You email address is associated with your login credentials. Updating your email address will also update your login credentials.*



ii. Click **Yes, Continue.**
You will be prompted to enter your password to continue.

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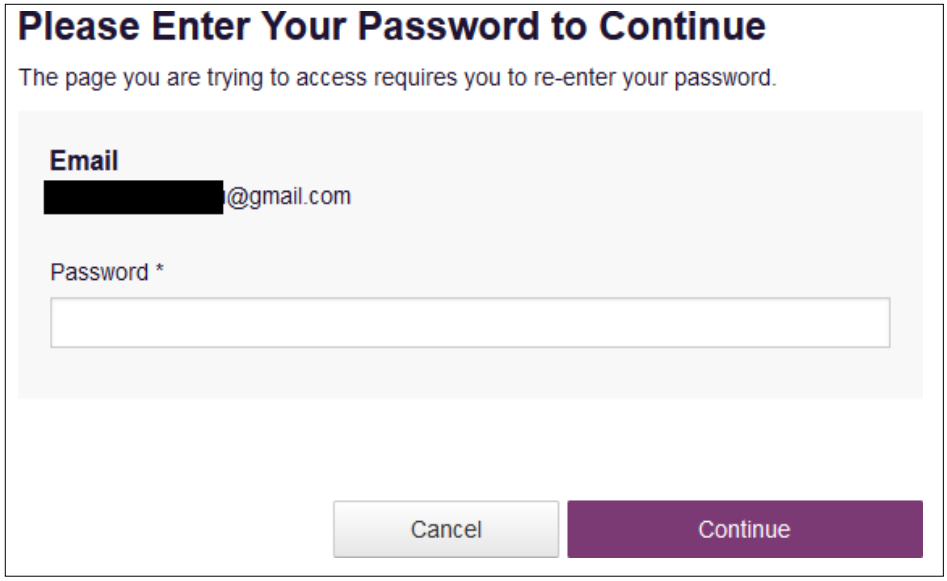
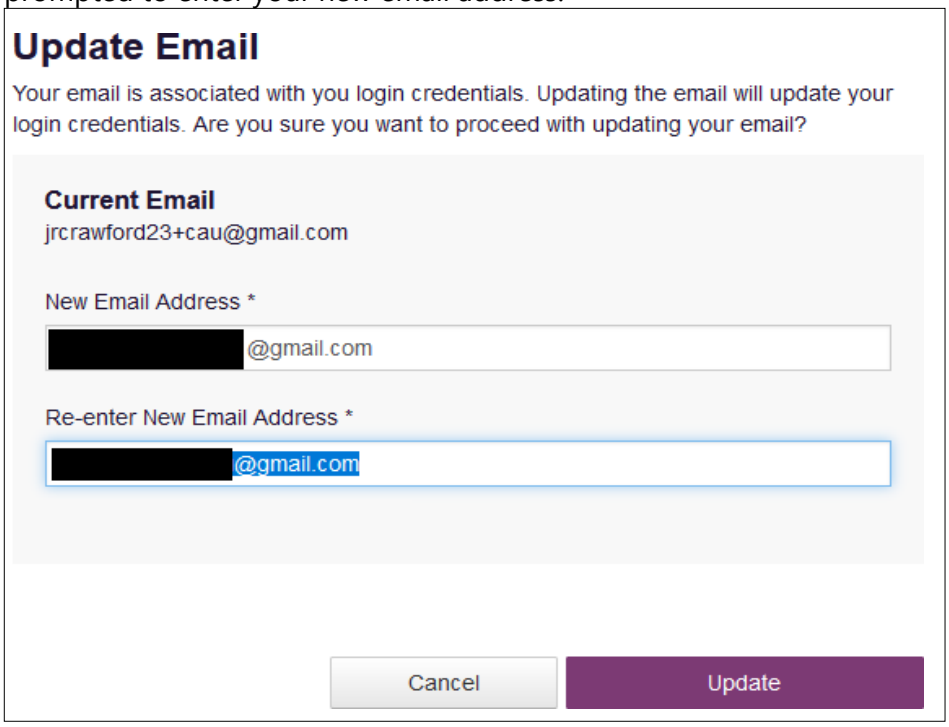


iii. Enter the password you created in Step 4, then click **Continue.**

Note: *If you no longer have the password, you can reset it by following the instructions in the Reset Password section of this document.*

Once you have successfully entered your password, you will be prompted to enter your new email address.



iv. Enter your new email address in the **New Email Address** field, then re-enter it in the **Re-enter New Email Address** field.

v. Click **Update.**

You will be returned to the **Set Up Multi-Factor Authentication** page.

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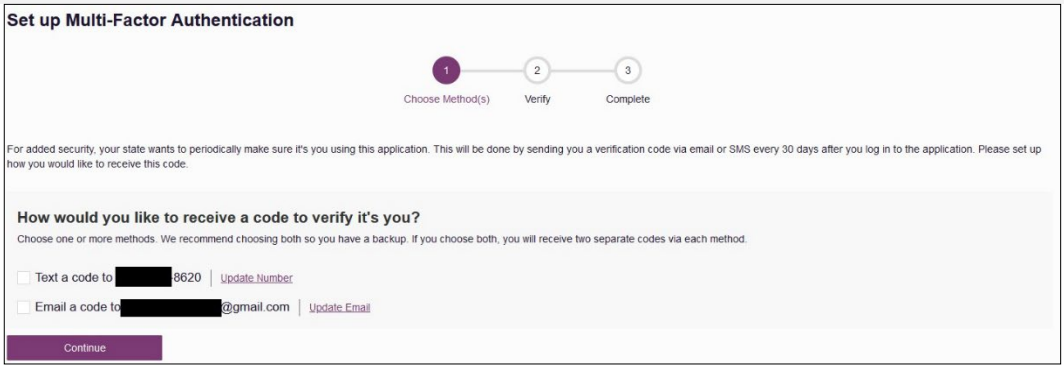
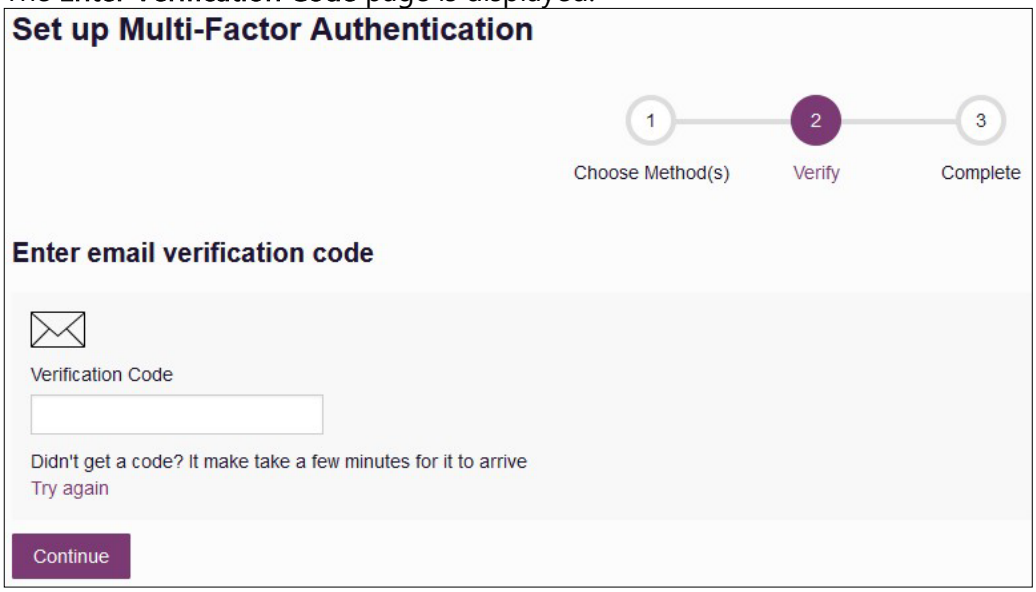
If your phone number and email address are correct, continue to Step 12. In the alternative, if you need to update your mobile phone number, refer to Step B.

12. Select whether you would like to receive your verification code via text message or email.

Note: *If you select both methods, you will receive two separate codes – one via each method.*



13. Click **Continue.**
The **Enter Verification Code** page is displayed.



14. Once you have received your verification code via the selected method, enter it in the **Verification Code** field.

Notes:

- *It may take several minutes to receive your verification code.*
- *If a few minutes have elapsed and you have not received a code, you can click **Try again** to request a new code.*
- *You can use your internet browser's **back** button to return to the previous page and select a different delivery method.*

15. Click **Continue.**

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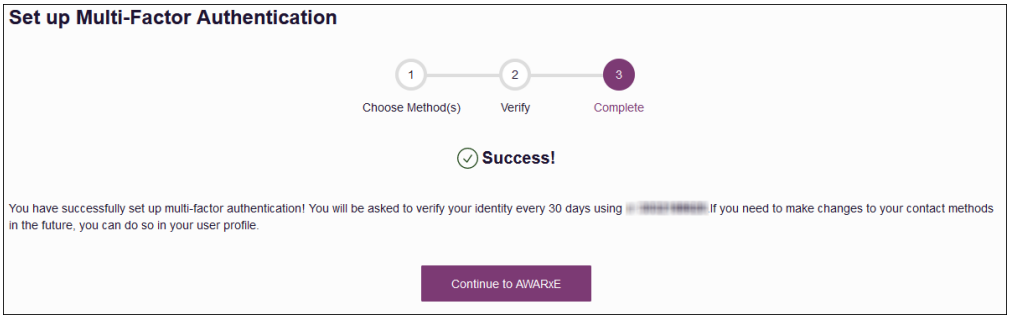
A message is displayed indicating that your multi-factor authentication has been successfully set up.

Note: *Your multi-factor authentication expires every 30 days. Upon expiration, you will be prompted to re-validate your account when you log in.*



16. Click **Continue to AWARxE.**

    Once you have submitted your registration, you will be notified of your account status (Access Granted, Pending Approval, or Not Complete – Additional Documents Needed) and instructed to verify your email address.

    Note: *If you are a delegate, you must also be approved by any supervisors you have selected before you can perform a Patient Request.*

    a. **Access Granted:** Certain user roles will be immediately granted access to the application provided their personal DEA numbers and professional license numbers as entered are valid and found within the registry. Once you are approved, you can log in and begin using the system.

       Notes:

       - *If you are a delegate, you must be approved by any supervisors you have selected before you can perform a* ***Patient Request.***
       - *If configured by your state, once you are approved, you may be presented with the End User License Agreement that you must review and accept prior to using the application.*

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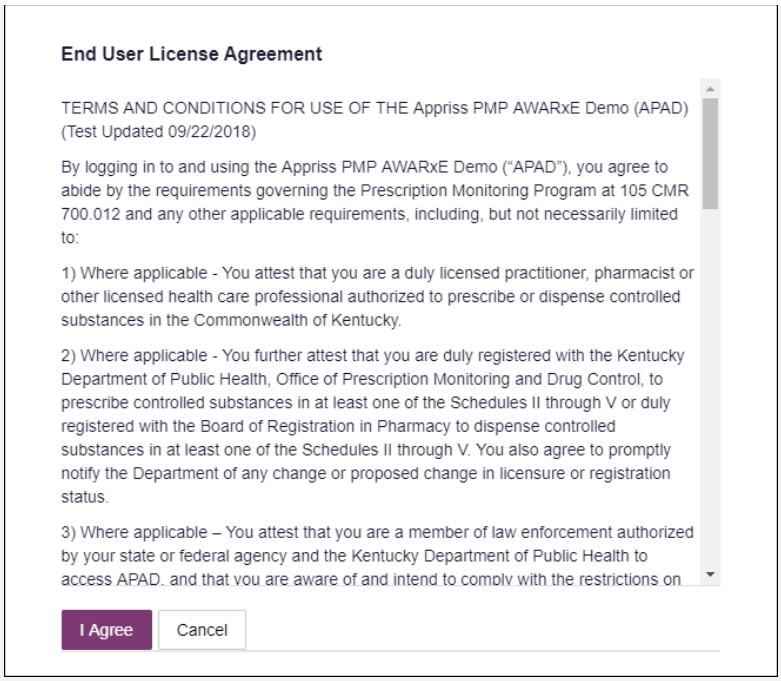
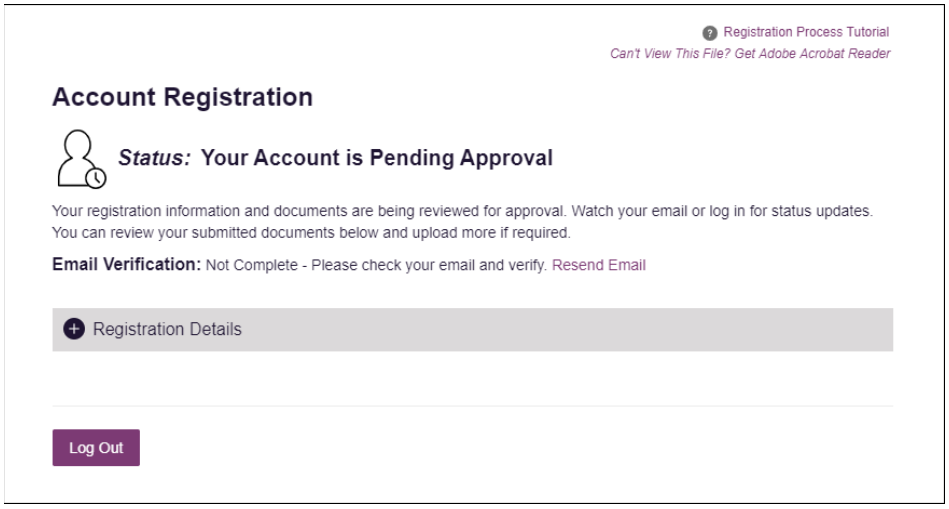


After accepting, you will be routed to your dashboard and can begin using the application.

b. **Pending Approval:** If your account requires manual approval to complete your registration, your registration status will be "*Pending Approval*." You may click the plus sign (+) next to **Registration Details** to view the information you submitted.

***Note**: Your information may not be edited at this time.*

Refer to Account Approval for more information.



c. **Not Complete – Additional Documents Required:** If your user role requires that you upload validation documents to complete your registration, your registration status will be "Not Complete – Additional Documents Required," and the Account Registration page displays the list of required documents.

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- Click **Choose File** to upload the required document(s) to your account. Then click **Submit Documents;**

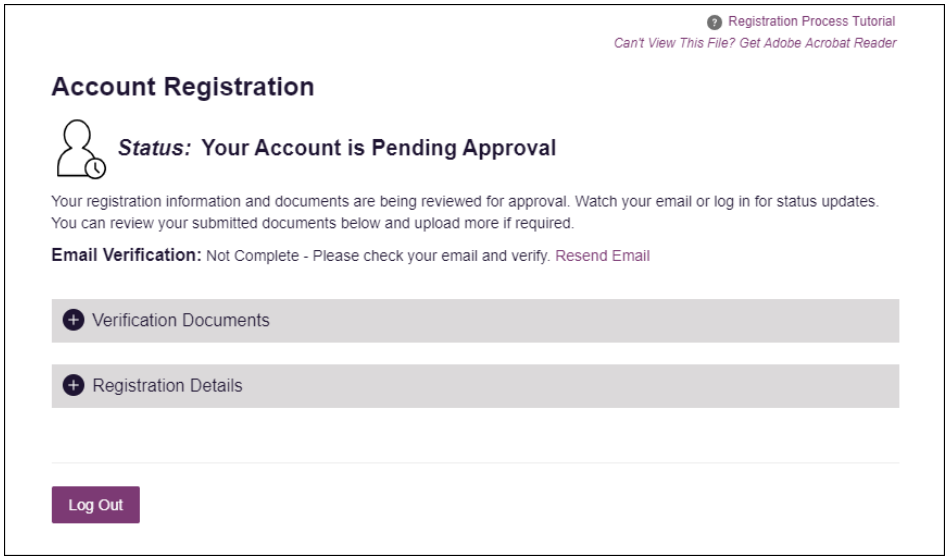
  Or

- Click **Log Out, Complete Later** to return at a later time and upload the required document(s). When you are ready to complete your registration, navigate to https://montana.pmpaware.net, then enter the username and password you established in the previous steps.

Once you have submitted your documents, you will be notified that your account is pending approval and instructed to verify your email address. You may click the plus sign (+) next to **Verification Documents** and **Registration Details** to view the information you submitted.

Note: *Your information may not be edited at this time.*

Refer to Account Approval for more information.



2.3 Verifying Your Email Address

Once you have submitted your registration, PMP AWARxE sends an email to the supplied email address for verification of an active email address.

Note: *If you did not receive the email containing the verification link, you may click* ***Resend Email*** *from the Account Registration page.*

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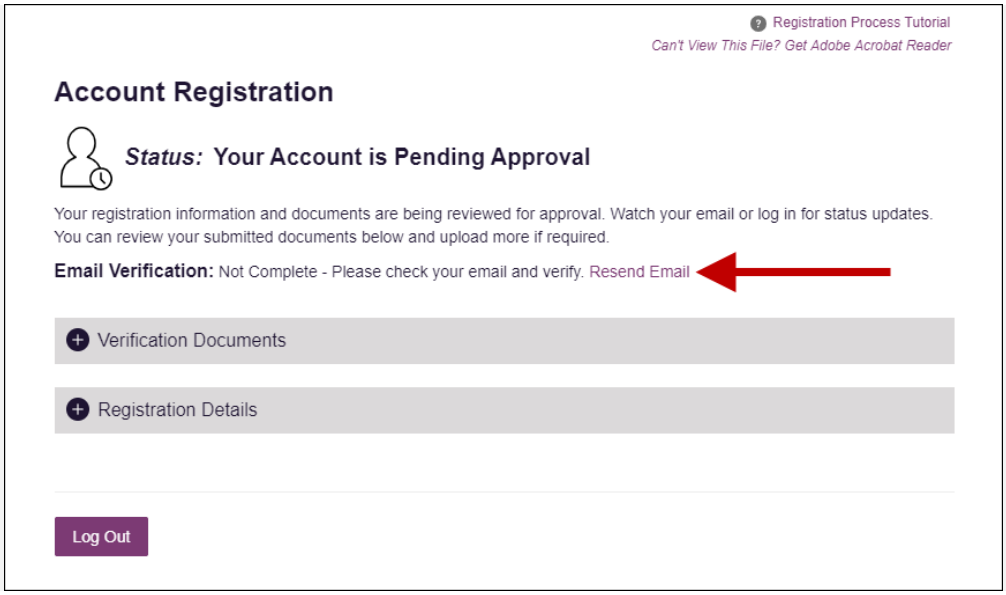
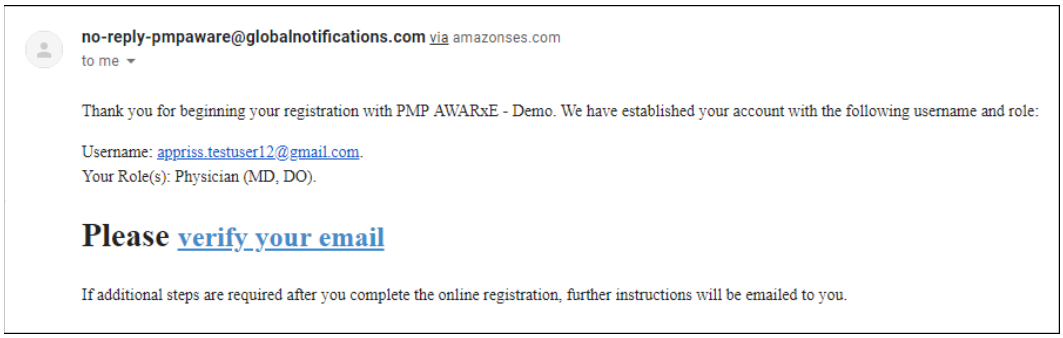


When you receive the email, it will contain a link to verify your email address. Click the **verify your email** link.



Notes:

- *The link contained within the email is only valid for 20 minutes. In the event that time has expired, clicking the link will result in a new email verification notification being sent to you. Click the link in the new email to verify your email address.*
- *If you are not able to receive HTML-formatted emails or emails with hyperlinks, please contact the help desk.*

Once you click the link, you are directed to PMP AWARxE, and a message is displayed indicating that your email address has been validated.

Note: *If your account requires approval, you will not have full access to PMP AWARxE functionality, including performing patient requests, until your account is approved. Please refer to Account Approval for more information.*

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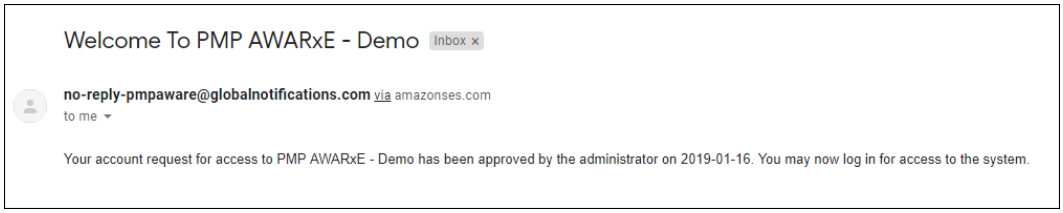
2.4 Account Approval

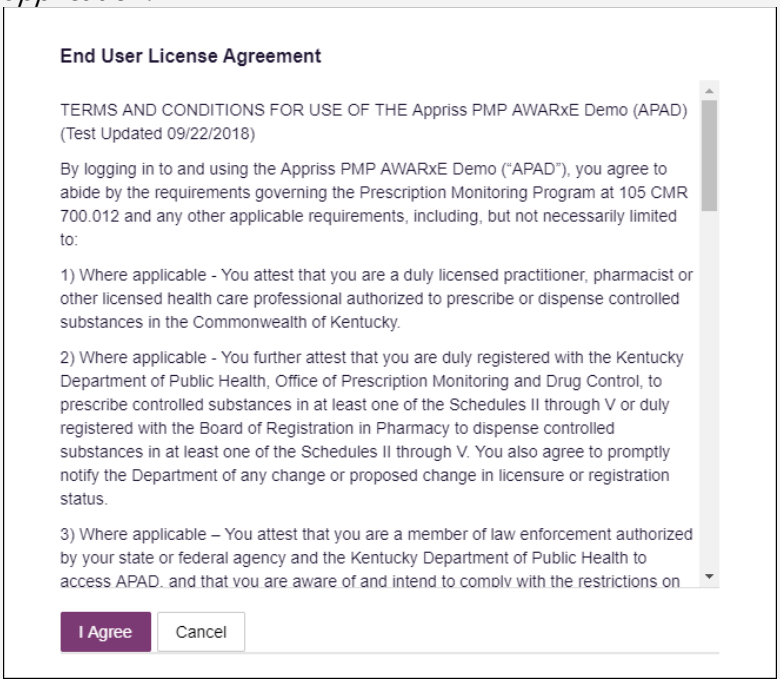
If your registration requires review and approval by the MPDR Administrator, you will receive an email stating that your account has been approved and is now active.



Once you receive the account approval email, you can log in to PMP AWARxE using the email address and password you created when you registered.

Notes:

- *If you are a delegate, you must be approved by any supervisors you have selected before you can perform a Patient Request.*
- *If configured by your state, upon logging in, you may be presented with the End User License Agreement that you must review and accept prior to using the application.*



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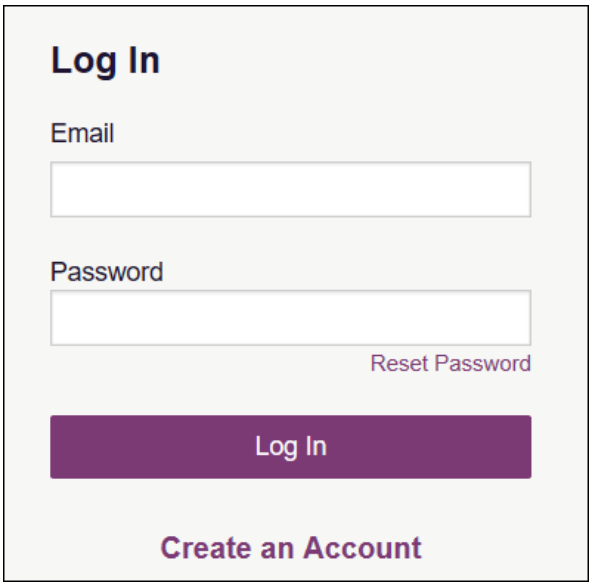
3 Basic System Functions

This chapter describes how to log in to PMP AWARxE, the Requestor Dashboard that is displayed upon logging in, and how to log out.

3.1 Log In to PMP AWARxE

1. Navigate to https://montana.pmpaware.net.

   The **Log In** page is displayed.



2. Enter the email address you provided when you registered in the **Email** field.
3. Enter your password in the **Password** field.

   Note: *If you have forgotten your password, click* ***Reset Password****. You will be prompted to enter the email address registered to your account. Once you have entered a valid, registered email address, you will receive an email with a link to reset your password.*
4. Click **Log In**.

   The My Dashboard page is displayed. Please refer to the My Dashboard section for a complete description of the dashboard.

   Note: *Your multi-factor authentication expires every 30 days. If your multi-factor authentication has expired, you will be prompted to re-validate your account upon logging in to AWARxE. If you click* ***Log In*** *and are prompted to re-validate your account, please refer to the Multi-Factor Authentication section of this document.*

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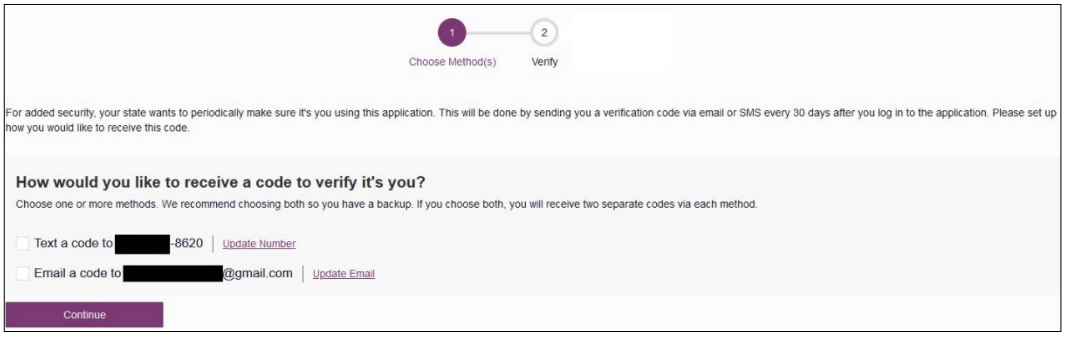
3.1.1 Multi-Factor Authentication

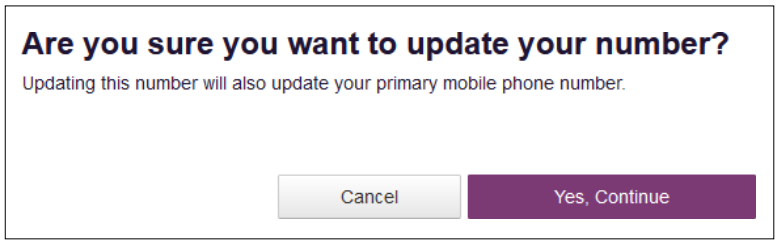
Your multi-factor authentication expires every 30 days. If your multi-factor authentication has expired, you will be prompted to re-verify your account upon logging in to AWARxE.



1. Verify the mobile phone number and email address displayed on the page are correct.
   a. If both are correct, continue to Step 2.
   b. If you need to update your mobile phone number;
      i. Click **Update Number.**

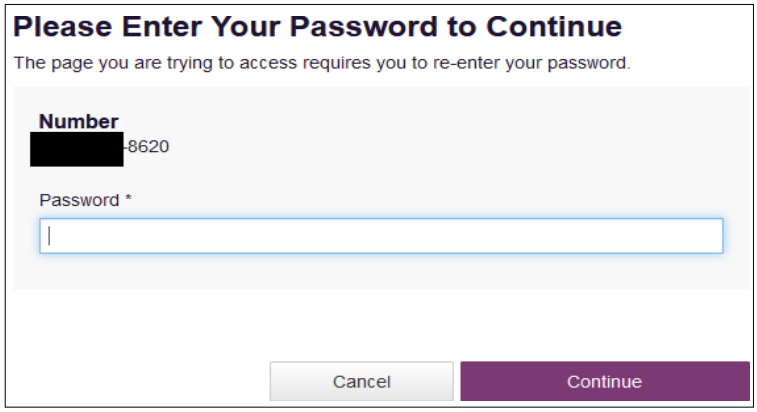
      You will be prompted to confirm that you want to update your mobile phone number.

      Note: *Updating this number will also update your primary mobile phone number.*



      ii. Click **Yes, Continue.**

      You will be prompted to enter your password to continue.



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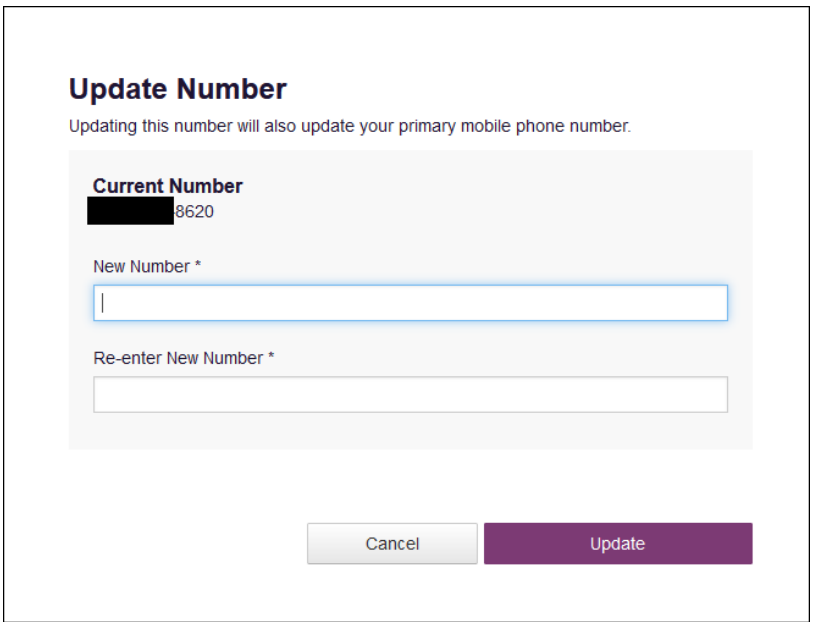
iii. Enter the password you created in Step 4, then click **Continue.**

Note: *If you no longer have the password, you can reset it by following the instructions in the Reset Password section of this document.*

Once you have successfully entered your password, you will be prompted to enter your new mobile phone number.



iv. Enter your new mobile phone number in the **New Number** field, then re-enter it in the **Re-enter New Number** field.

v. Click **Update.**

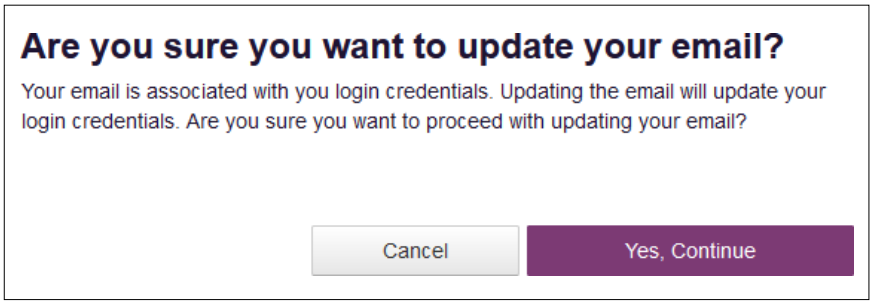
You will be returned to the **Multi-Factor Authentication** page. If your phone number and email address are correct, continue to Step 12. In the alternative, if you need to update your email address, continue to Step C.

c. If you need to update your email address:

i. Click **Update Email.**

You will be prompted to confirm that you want to update your email address.

Note: *Your email address is associated with your login credentials. Updating your email address will also update your login credentials.*



ii. Click **Yes, Continue.**

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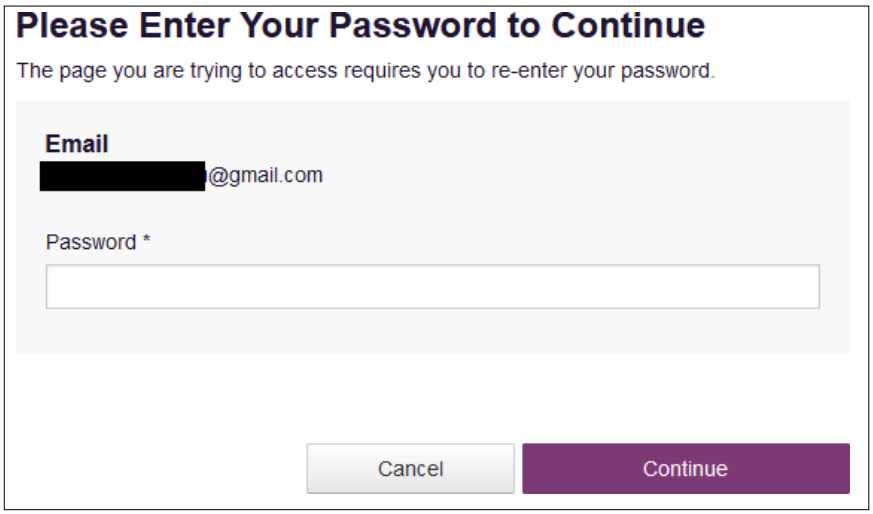
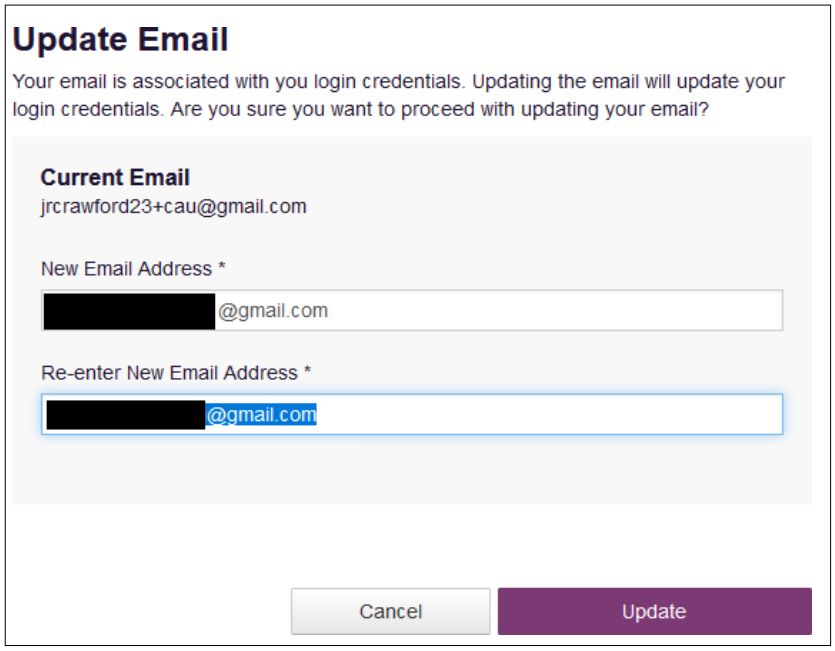
You will be prompted to enter your password to continue.



iii. Enter the password you created in Step 4, then click **Continue.**

Note: *If you no longer have the password, you can reset it by following the instructions in the Reset Password section of this document.*

Once you have successfully entered your password, you will be prompted to enter your new email address.



iv. Enter your new email address in the **New Email Address** field. Then re-enter it in the **Re-enter New Email Address** field.

v. Click **Update.**

You will be returned to the **Multi-Factor Authentication** page. If your phone number and email address are correct, continue to Step 2. In the alternative, if you need to update your mobile phone number, refer to Step B.

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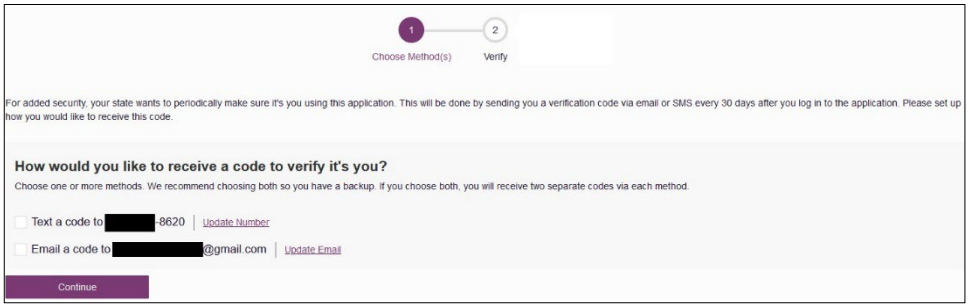
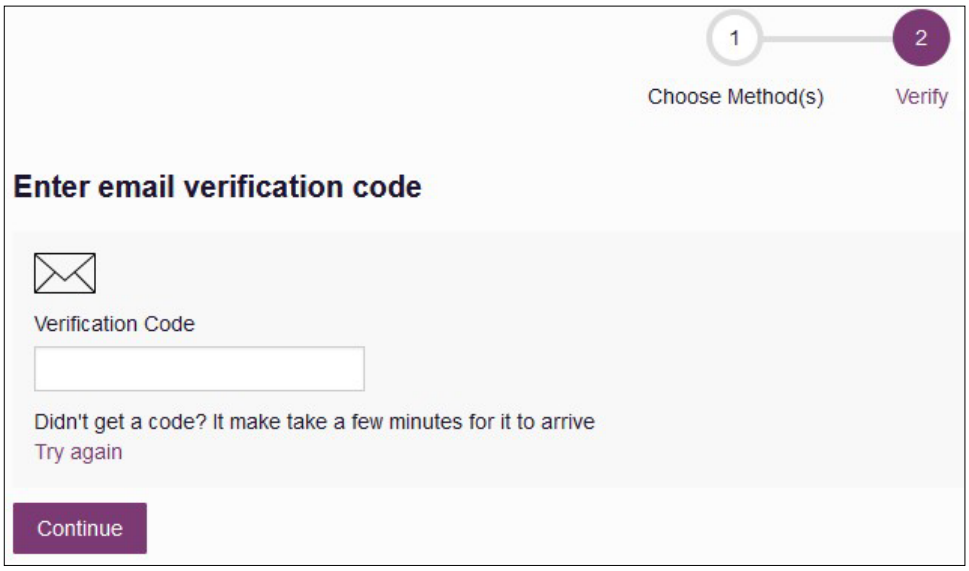
2. Select whether you would like to receive your verification code via text message or email.

***Note:** If you select both methods, you will receive two separate codes – one via each method.*



3. Click **Continue.**

The **Enter Verification Code** page is displayed.



4. Once you have received your verification code via the selected method, enter it in the **Verification Code** field.

Notes:

- *It may take several minutes to receive your verification code.*
- *If a few minutes have elapsed and you have not received a code, you can click **Try Again** to request a new code.*
- *You can use your internet browser's **back** button to return to the previous page and select a different delivery method.*

5. Click **Continue.**

Your account is verified, and you will be logged in to AWARxE.

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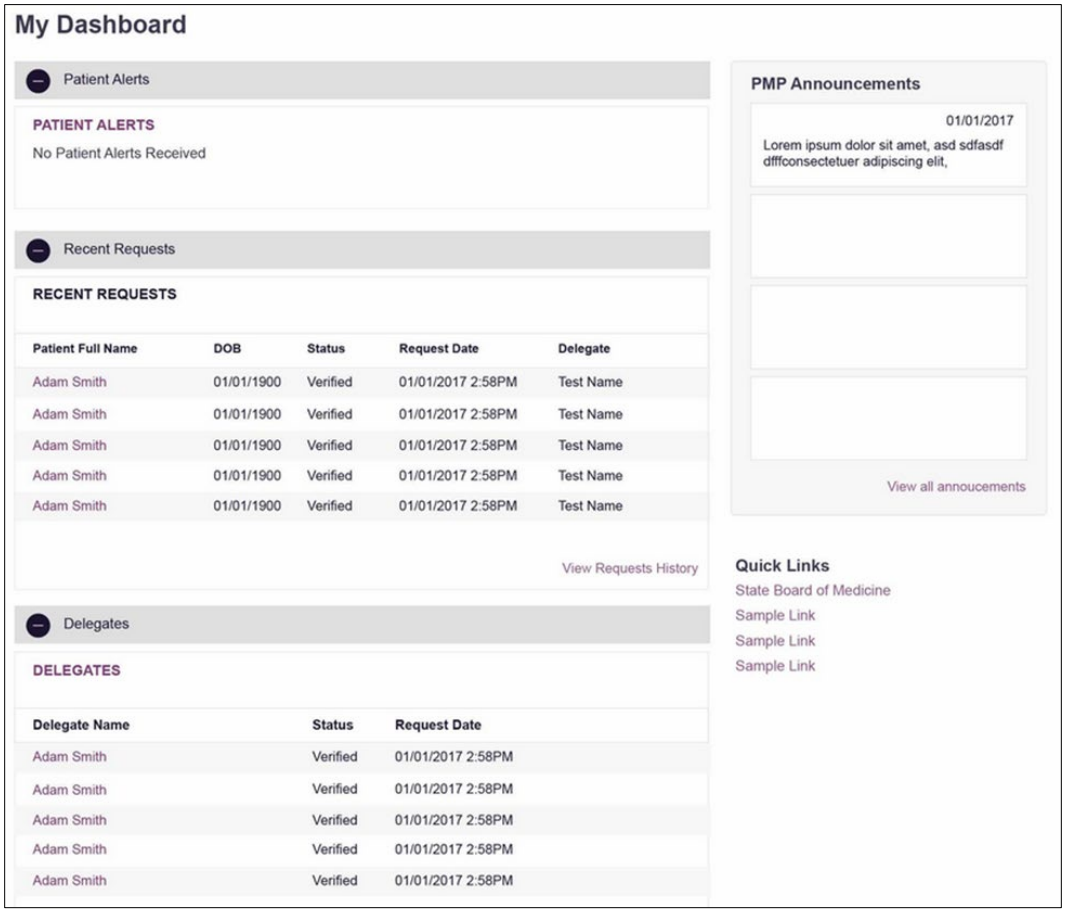
3.2 My Dashboard

Upon logging in to PMP AWARxE with an approved account, the requestor dashboard (My Dashboard) is displayed. This dashboard provides a quick summary of pertinent items within PMP AWARxE, including State Administrator announcements, your recent patient searches, patient alerts, and, if applicable, your delegate's or supervisor's status. My Dashboard can be accessed at any time by clicking **Menu** > **Dashboard** (located under **Home**).



3.2.1 Patient Alerts

This section displays the most recent clinical alerts for your patients.

Note: *This section is user role dependent, meaning that certain roles will be unable to view this section.*

- New alerts (i.e., those that have not been viewed) are displayed in **bold** with the word "NEW" next to them.
- You can download the letter associated with the alert by clicking **Download PDF**.

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- You can view the Patient Request associated with a patient by clicking the patient's name.
- You can click **Patient Alerts**, located at the top of the section, to access a full listing of patient alerts. You can also access patient alerts at any time by clicking **Menu** > **Patient Alerts** (located under **Rx Search**).

3.2.2 Recent Requests

This section displays your most recent patient searches, including those performed by one of your delegates.

- You can view the Narx Report by clicking the patient's name.
- You can view a list of all past requests by clicking **View Requests History**. You can also access your request history at any time by clicking **Menu** > **Requests History** (located under **Rx Search**).

Note: *The report that is displayed when you click the patient's name is a historical report, meaning that it contains the data that was viewed when the report was initially run. For instructions on performing new patient Rx history searches, please refer to the Creating a Patient Request section.*

3.2.3 Delegates/Supervisors

This section displays your delegates or supervisors, depending on your user role.

- If you are a supervisor, you can quickly change a delegate's status from the dashboard by clicking the delegate's name. Once you click the delegate's name, the Delegate Management page is displayed, and you can approve, reject, or remove a delegate from your profile.
- You can click **Delegates**, located at the top of the section, to access the Delegate Management page. The Delegate Management page can also be accessed at any time by clicking **Menu** > **Delegate Management** (located under **My Profile**).
- For additional information regarding delegate management, please refer to the Delegate Management section.

3.2.4 Announcements and Quick Links

This section displays announcements from your State Administrator as well as links to webpages outside of AWARxE that may be of use to you.

- The quick view only displays the first few lines of text; however, you can click **PMP Announcements**, located at the top of the section, to display the full announcement text. You can access the **Announcements** page at any time by clicking **Menu** > **Announcements** (located under **Home**).

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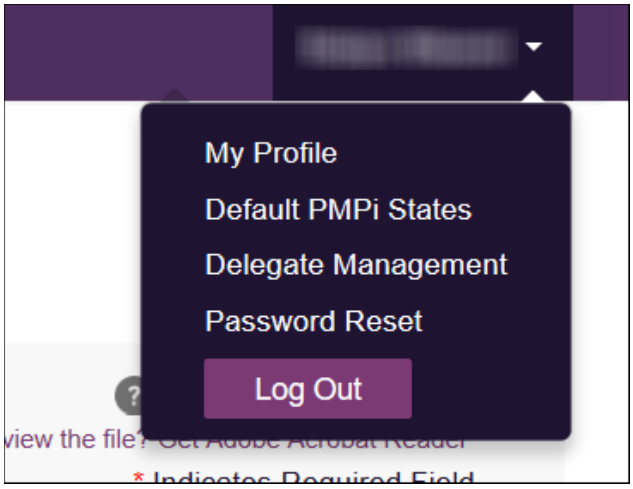
- The announcements displayed in this section are configured by your State Administrator. **Announcements** can be configured as role-specific, meaning that a user whose role is "physician" may see an announcement, whereas a user whose role is "delegate" may not.
- **Quick links** are also configured by your State Administrator. Any links configured will be visible toward the bottom right of the dashboard in the **Quick Links** section.

3.3 Log Out of PMP AWARxE

To log out of the system, click the arrow next to your username (located in the top right corner of the page), and then click **Log Out**.



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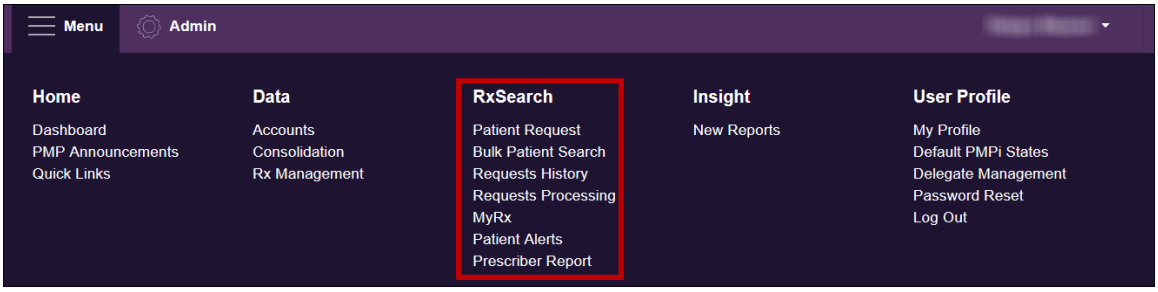
4 RxSearch

The **RxSearch** section of the PMP AWARxE menu contains the query functions available to you. These functions may include:

- Creating a patient request
- Viewing patient reports
- Performing a bulk patient search
- Viewing historical requests
- Viewing a report of prescriptions attributed to you
- Viewing patient alerts



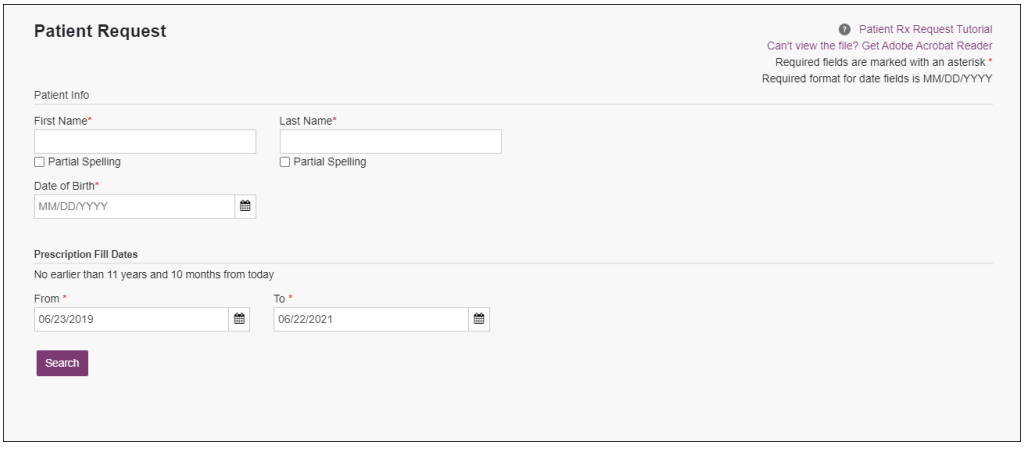
Note: *You may not have access to all of the reports listed above. The functions available under* ***RxSearch*** *may vary depending on your user role and the settings enabled by your State Administrator. If you do not have access to a report and you think you should, please contact your State Administrator.*

4.1 Creating a Patient Request

The **Patient Request** allows you to create a report that displays the prescription drug activity for a specific patient for the specified timeline.

1. Log in to PMP AWARxE.
2. Click **Menu** > **Patient Request**.

   The **Patient Request** page is displayed.



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Note: *A tutorial describing the complete patient request creation process is available by clicking the* ***Patient Rx Request Tutorial*** *link located in the top right corner of the page.*

3. Enter the required information, noting that required fields are marked with a red asterisk (*). At a minimum, you must complete the following fields:

Field Name	Notes
Patient Info	
First Name	Enter the patient's complete first and last name; Or Click the **Partial Spelling** checkbox to search by a partial first and/or last name. This option can be helpful when searching hyphenated names or names that are often abbreviated, such as "Will" vs. "William." ***Note:*** *The Partial Spelling function requires at least three letters. If the patient's name contains only one or two letters, please do not attempt a partial search.*
Last Name	
Date of Birth	Use the *MM/DD/YYYY* format or click the calendar icon to select a date.
Prescription Fill Dates	
From	Use the *MM/DD/YYYY* format or click the calendar icon to select a date.
To	

Note: *If you are a delegate, you must select a supervisor from the* ***Supervisor*** *field, located above the Patient Info section of the page.*

If no supervisors are available, please contact your supervisor(s) to approve your account or add the supervisor under My Profile. Current supervisors and their statuses are displayed on your dashboard. Refer to the Delegates/Supervisors section of My Dashboard or the My Profile section for further instructions.

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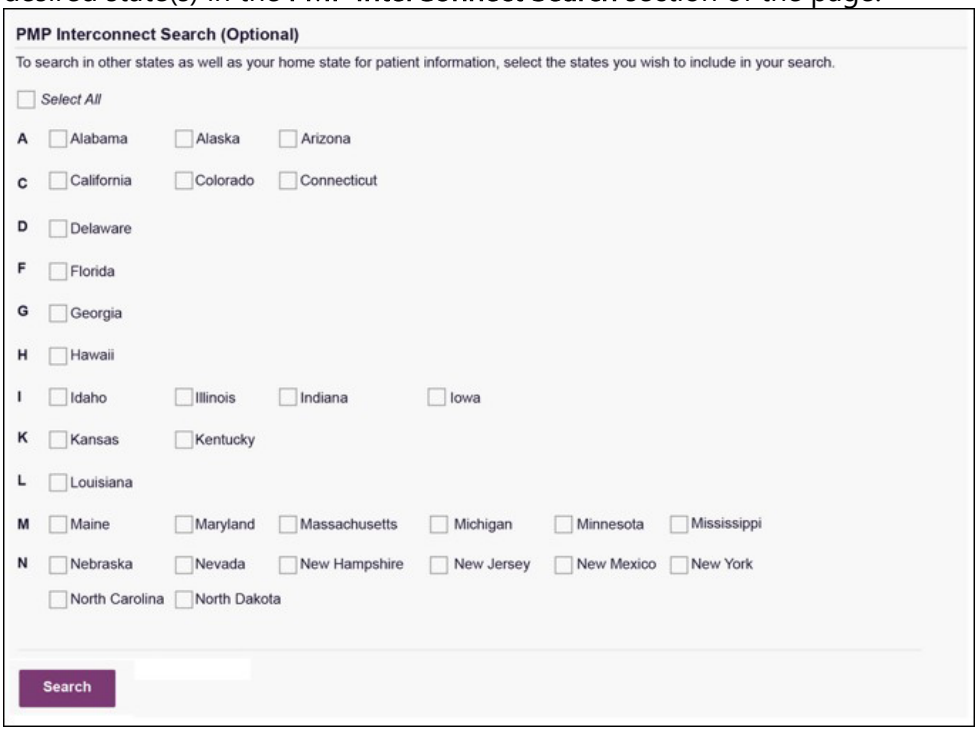
4. If you require information from other states, click the checkbox next to the desired state(s) in the **PMP InterConnect Search** section of the page.



Notes:

- *Partial search is not available when searching other states. If you have selected partial search, the **PMP InterConnect Search** section will be removed from the bottom of the page.*
- *If a state is not included on the list, data sharing with that state is not currently in place, or your user role does not allow for data sharing.*

5. Once you have entered all the required search criteria, click **Search**.
   a. If your search results return a single patient, the Narx Report is displayed. Refer to the Viewing a Narx Report section for more details regarding the Narx Report.

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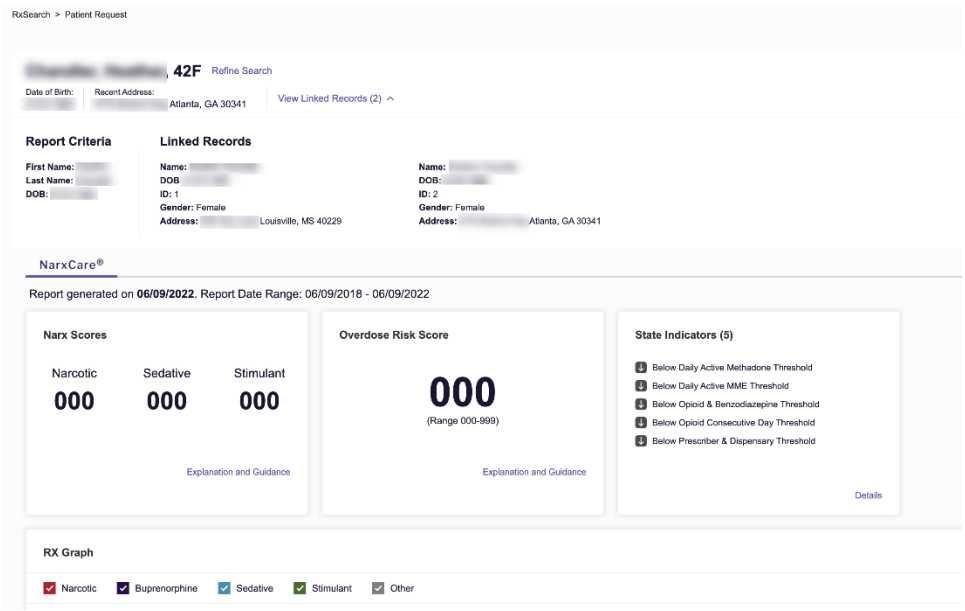

Note: *If you need a PDF or CSV version of the report, you can click* ***Download PDF*** *or* ***Download CSV****, located in the top right corner of the report.*

b. If the search could not determine a single patient match, a message is displayed indicating that multiple patients were found.
   - If you searched for an exact patient name and multiple patients were found, refer to the Multiple Patients Identified section.
   - If you searched for a partial patient name and multiple patients were found, refer to the Partial Search Results section.

c. If your search does not return any results, a message is displayed indicating that either no patient matching your search criteria could be identified or the patient was identified but no prescriptions were found. Refer to the No Results Found section for more information.

4.1.1 Multiple Patients Identified

1. If you searched for an exact patient name and multiple patients were found, a message is displayed indicating that multiple patients matching your search criteria have been identified.

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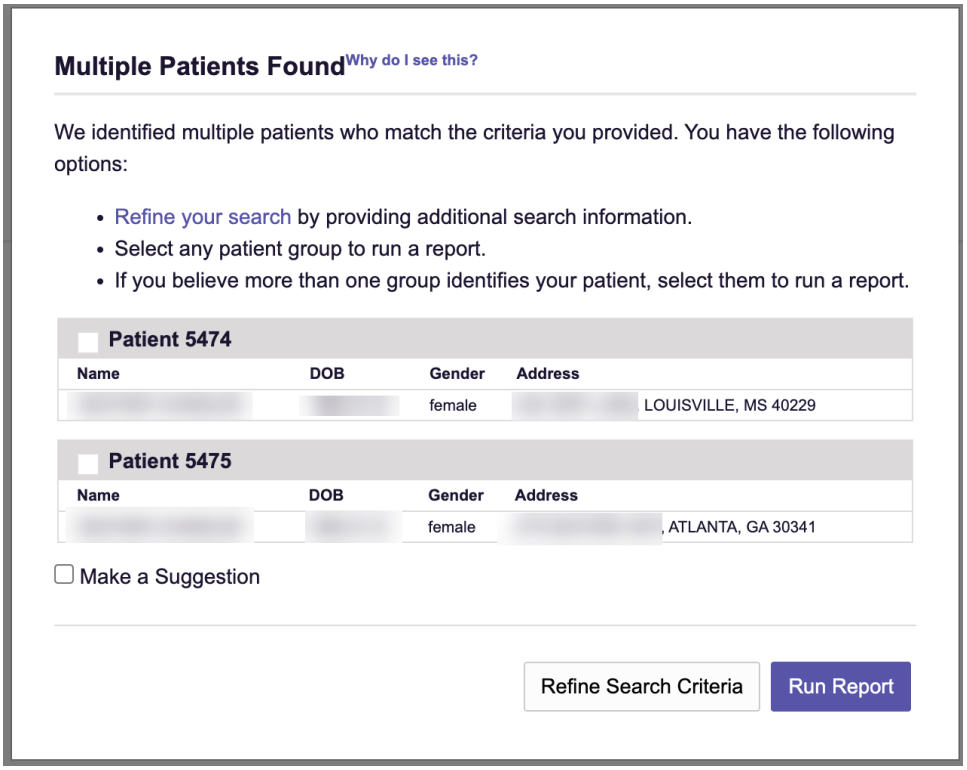
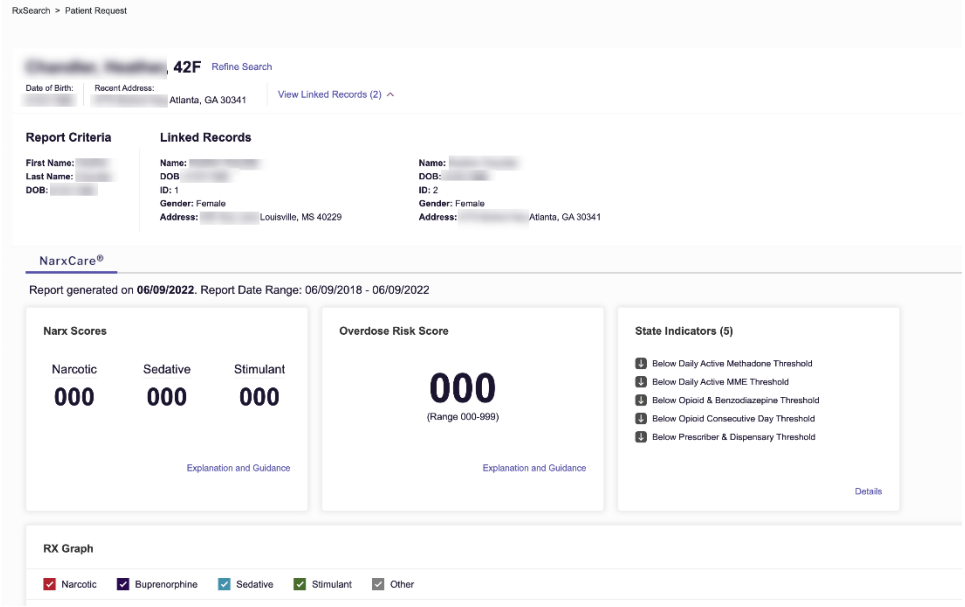


2. From this window, you can:
   a. Click **Refine Search Criteria** to return to the Patient Request page, refine your search criteria, and re-run the report;

      Or

   b. Select one or more of the patient groups displayed, and then click **Run Report**.

      The Narx Report for the patient group(s) you selected is displayed.



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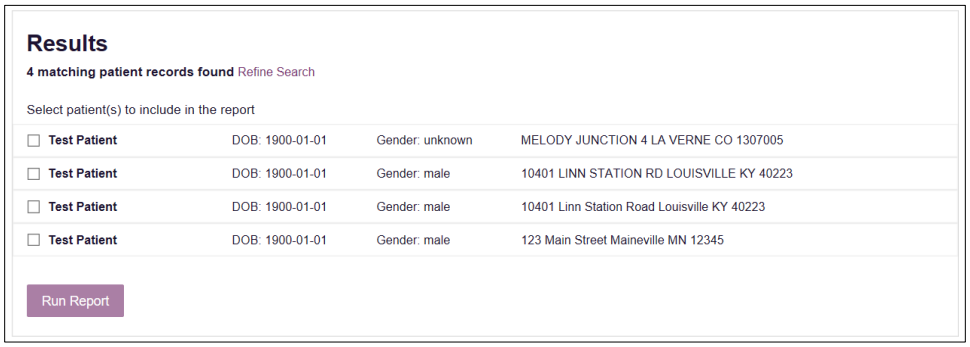
4.1.2 Partial Search Results

1. If you searched for a partial patient name and multiple patients were found, a message is displayed indicating that multiple patients match your search criteria.

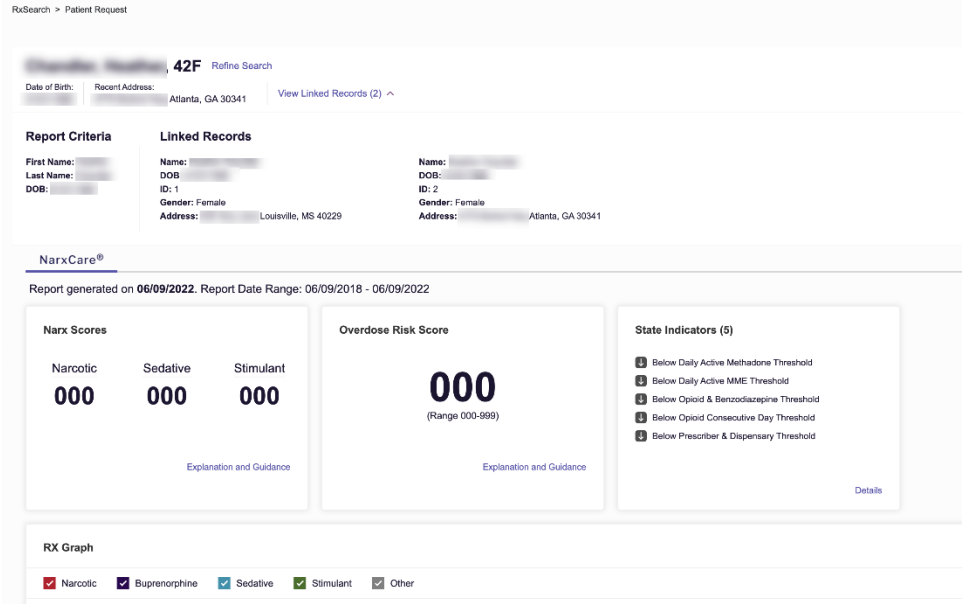


2. From this window, you can:
   a. Click **Refine Search** to return to the Patient Request page, refine your search criteria, and re-run the report;

      Or

   b. Select one or more of the patients displayed, and then click **Run Report**.

      The Narx Report for the patient(s) you selected is displayed as shown below.



4.1.3 No Results Found

1. If your search criteria could not be matched to any patient records, a message is displayed indicating that no matching patient could be identified.

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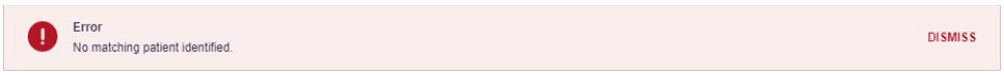
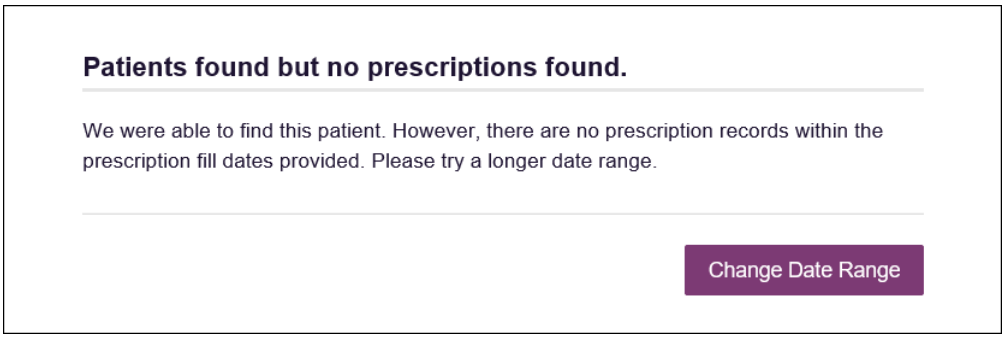


Or

2. If your search criteria matches a patient record but the patient has no prescriptions within the specified timeframe, a message is displayed indicating that the patient was found but no prescriptions were found.



3. Click **Change Date Range** to return to the **Patient Request** page, enter a different date range, and re-run the report.

Notes:

- *Be sure to verify that all information entered on the request was entered correctly (e.g., verify that the first and last names were entered in the correct fields, verify the patient's birthdate, etc.).*
- *If **Partial Search** was not originally selected, you can click the **Partial Search** checkbox to expand your search results.*
- *You can also enter additional demographic information, such as a ZIP code, to perform a fuzzy search.*

4.2 Viewing a Narx Report

Once your search results are returned, the NarxCare Report is automatically displayed. For complete information on the NarxCare Reports, and for more information on the NarxCare system, please refer to Appendix A: NarxCare.

You may also access your previously requested NarxCare Reports at any time by clicking **Menu > Requests History.** Refer to the Requests History section for more information.

4.3 Requests History

1. To view a previously created Narx Report, click **Menu** > **Requests History**.

   The **Requests History** page is displayed.

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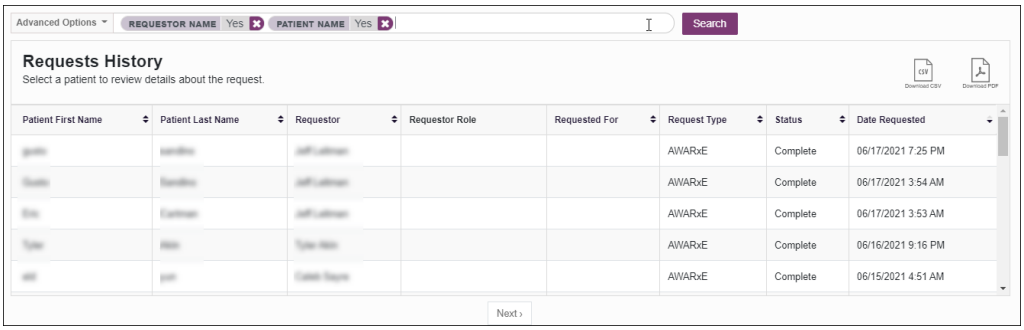
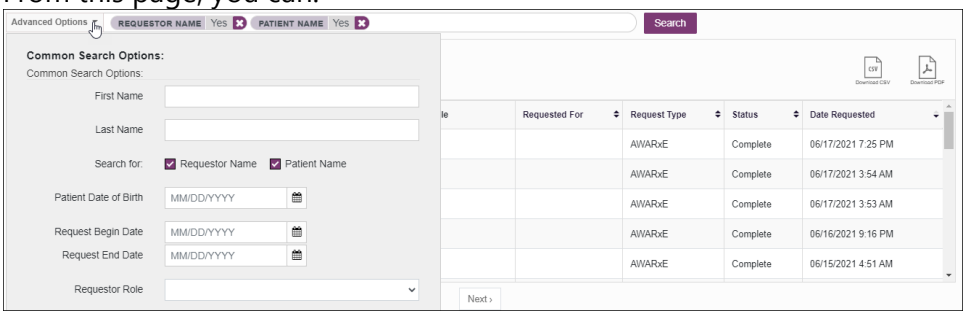


Note:

- *You can only view Narx Reports you or your delegate(s) have created.*
- *The **Requests History** page displays a list of patient requests created by you and your delegate(s), if applicable, in the last 365 days.*

2. From this page, you can:



a. Click **Advanced Options** to filter the list of requests.

b. Click **Download PDF** or **Download CSV** to export your search history if this functionality has been configured by your State Administrator.

c. Click a patient name to view the details of that request in a detail card at the bottom of the page.

From the Patient Detail Card, you can:

- Click **View** to display the results of the previously submitted request. Refer to Viewing a Narx Report for details regarding Narx Reports.

  ***Note:** The results of previous requests are not updated with new information. The results displayed are the results at the time the original search was performed.*

- Click **Refresh** to generate a new Narx Report for the selected patient. The Patient Request page will be displayed with the patient's information

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automatically populated. Refer to Creating a Patient Request for complete instructions on generating new requests.

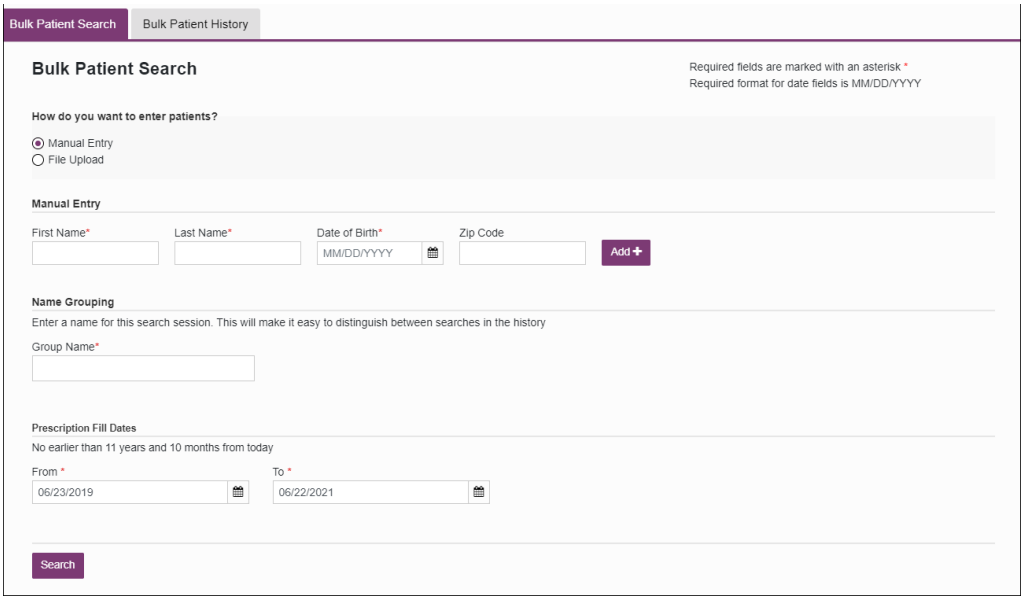
4.4 Bulk Patient Search

The Bulk Patient Search functionality is similar to the Patient Request functionality; however, it allows you to enter multiple patients at once rather than one at a time. You can enter patient names manually or via CSV file upload.

To perform a **Bulk Patient Search**:

1. Click **Menu** > **Bulk Patient Search**.

   The **Bulk Patient Search** page is displayed.

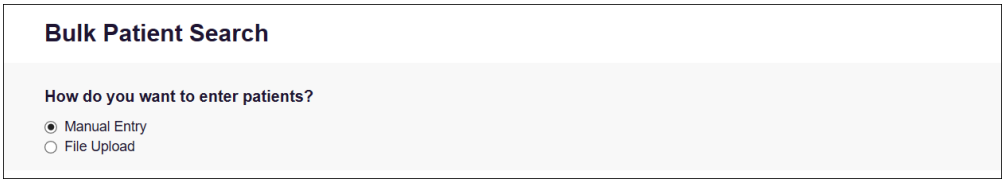


   a. If you wish to enter patients manually, continue to Step 2;

      Or

   b. If you wish to enter patients via CSV file upload, continue to Step 6.

2. Ensure that **Manual Entry** is selected in the **How do you want to enter patients?** field at the top of the page.



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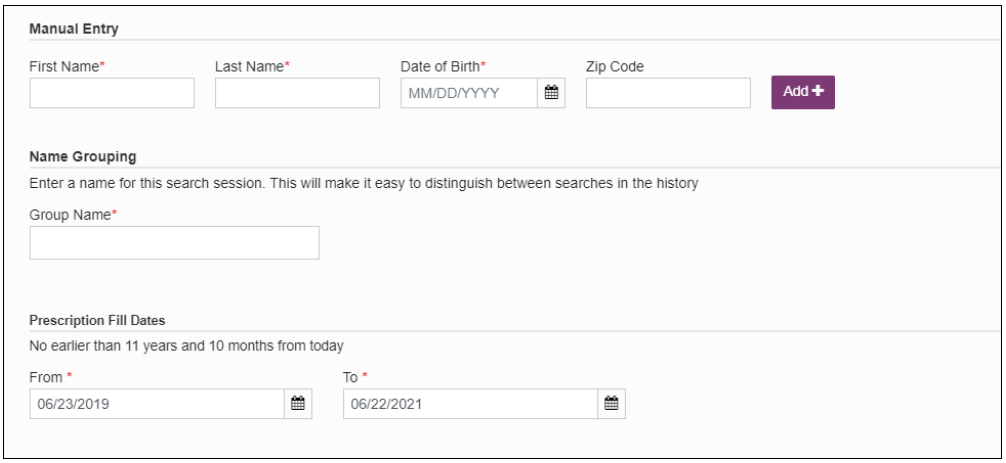
The **Manual Entry** search is displayed.

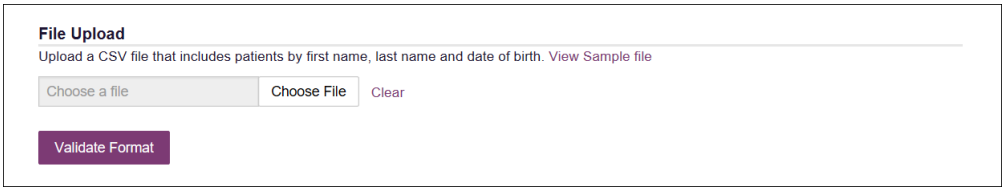


3. Complete the following required fields:
   - **First Name** – enter the patient's complete first name
   - **Last Name** – enter the patient's complete last name
   - **DOB** – enter the patient's date of birth using the *MM/DD/YYYY* format or select a date from the calendar that is displayed when you click in this field.

   Note: *You may also enter the patient's ZIP code. However, it is not recommended.*
4. Once you have entered the patient's information, click **Add** to add an additional patient.
5. Repeat steps 2–3 until all patients have been entered.

   Note: *Once you have finished entering patients, continue to Step 14.*
6. Click the **File Upload** radio button in the **How do you want to enter patients?** field at the top of the page.

The **File Upload** search is displayed.



7. Click **View Sample File** to download the sample CSV file.

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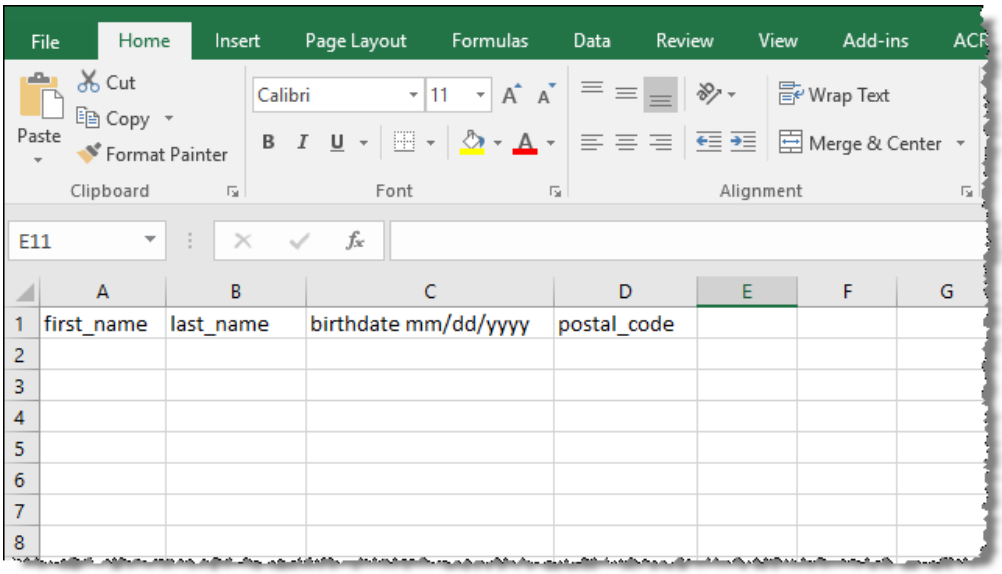
8. Open the sample CSV file and complete the required fields.



Notes:

- *The patient's complete first name, last name, and date of birth (using the MM/DD/YYYY format) are required.*
- *You may enter the patient's ZIP code. However, it is not recommended.*

9. Once you have entered all patient information, save the file to your computer.

Note: *When naming your file, do not include spaces.*

10. Click **Choose File**, then select the file you created in Step 9.
11. Click **Validate Format** to download a validation report and ensure all records were entered correctly.
12. Once you open the validation report, any errors in your data will be listed in the **Errors** column. Please correct the errors and resubmit the corrected file.

Note: *If the **Errors** column is blank, the data is acceptable.*

Examples:

- *File with errors:*

first_name	last_name	birthdate	postal_cod	errors
john		1/1/1950		Last name can't be blank
first_name	last_name	birthdate	postal_cod	errors
	smith	1/1/1960		First name can't be blank
first_name	last_name	birthdate	postal_cod	errors
sally	smith			Birthdate can't be blank
first_name	last_name	birthdate	postal_cod	errors
ronald	smith	1/1/1970		

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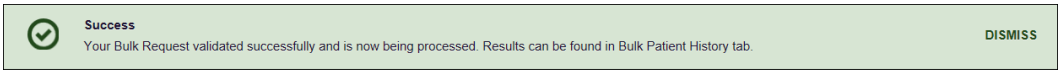
- *File with no errors:*

first_name	last_name	birthdate	postal_cod	errors
john	smith	1/1/1950		
first_name	last_name	birthdate	postal_cod	errors
adam	smith	1/1/1960		
first_name	last_name	birthdate	postal_cod	errors
sally	smith	1/1/1970		

13. Repeat steps 10–12 until all errors have been corrected. Once all errors have been corrected and your file is validated, or if your file has no errors, continue to Step 14.
14. Enter a name for your search session in the **Group Name** field.

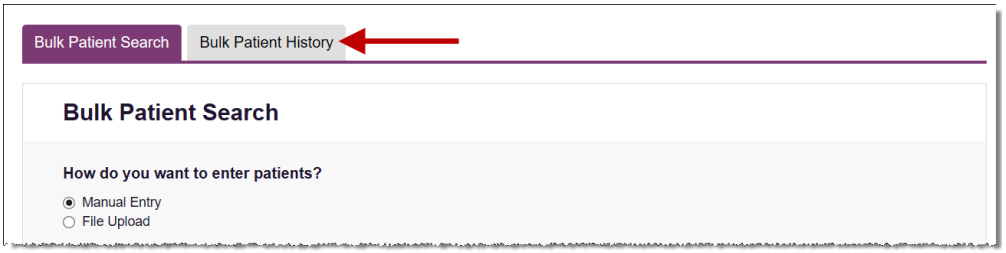
    Note: *Providing a group name will help you more easily distinguish between searches in the* ***Bulk Patient History*** *tab.*
15. Enter the timeframe for which you wish to search in the **From** and **To** fields using the **MM/DD/YYYY** format.
16. If you wish to include other states in your search, click the checkbox next to the desired state(s) in the **PMP Interconnect Search** section of the page.
17. Click **Search**.

    A message is displayed indicating that your search is being processed.

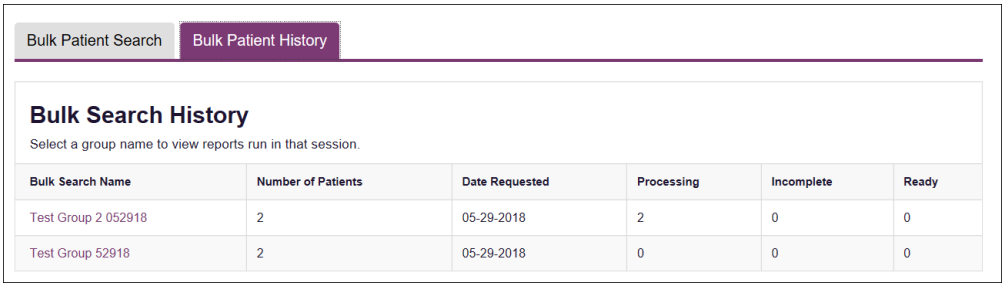


4.4.1 Viewing Bulk Patient Search Results

1. To obtain the results of a **Bulk Patient Search**, or to view previous searches, click the **Bulk Search History** tab (**Menu** > **Bulk Patient Search** > **Bulk Patient History**).



The **Bulk Search History** page is displayed.



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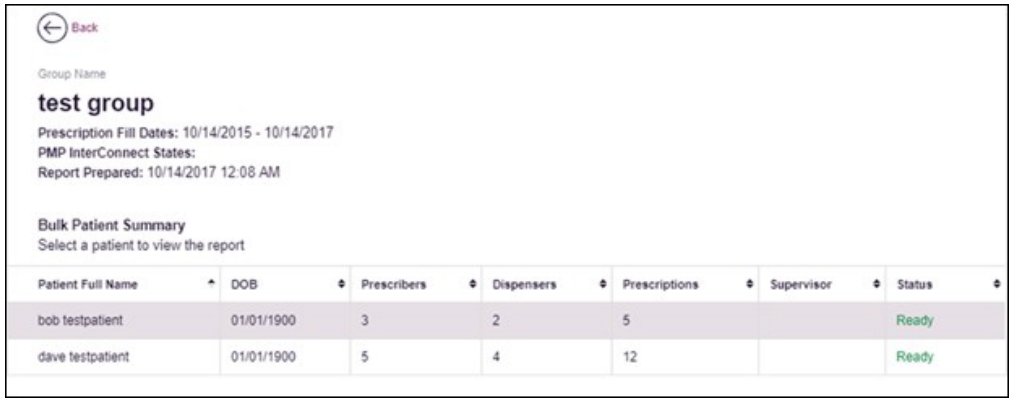
Notes:

- *The **Number of Patients** column provides the total number of patients included in your search.*
- *The **Processing** column provides the total number of searches remaining to be processed. If the number is "0," your search is complete.*
- *The **Incomplete** column provides the number of patient records that could not be found.*
- *The **Ready** column provides the number of patient search results available.*

2. Click the **Bulk Search Name** to view the results of that search.



3. Click a patient name to display that patient's search details. The search details are displayed below the table.

4. From this page, you can:
   - Click **View** to display the NarxCare Report.

     Note: *For more information on viewing report results, please refer to* *Viewing a NarxCare Report.*
   - Click **Refresh** if you are viewing a previous report and wish to run a current report.

Note: *If the Bulk Search History page indicates that all patient records are ready (screenshot a), but you click the search results and a patient's status is displayed as "incomplete" (screenshot b), it is likely that the search returned multiple results for that patient.*

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(a)

(b)

To resolve this and view the report:

1. *Click the patient's name.*

   The patient search details are displayed.

2. *Click **Try Again.***

   *The **Patient Request** page is displayed.*

3. *Refer to Multiple Patients Identified to run the report.*

4.4.2 Incomplete Bulk Patient Search Results

The **Status** column for an individual patient may indicate **Incomplete** for two reasons:

1. **No Matching Patient Identified**

   Or

2. **Multiple Patient**.

Upon clicking the patient's name, the reason is listed in the **Reason** field of the search details.

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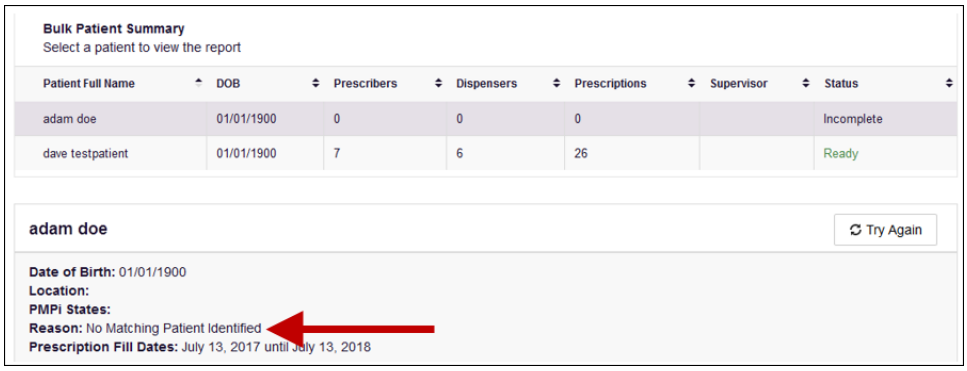
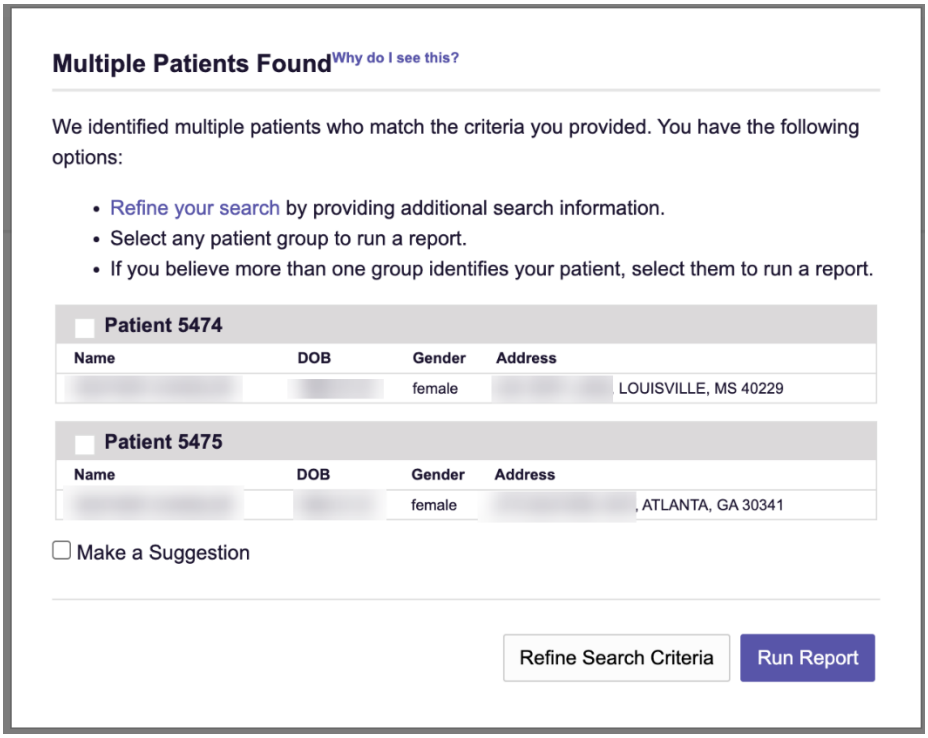


1. **No Matching Patient Identified:** The system was not able to locate a patient matching your search criteria. Click **Try Again** to open the **Patient Request** page where you can perform a partial search or modify your search criteria.
2. **Multiple Patients:** The system identified multiple patients matching your search criteria. Click **Try Again** to open the Patient Request page, then click **Search** at the bottom of the page. The **Multiple Patients Found** window will display prompting you to select the patients for whom you wish to run a report. The **Multiple Patients Found** window is shown on the following page.



Select the correct patient(s), and then click **Run Report** to view the Narx Report. For more information on viewing report results, please refer to Viewing a Narx Report.

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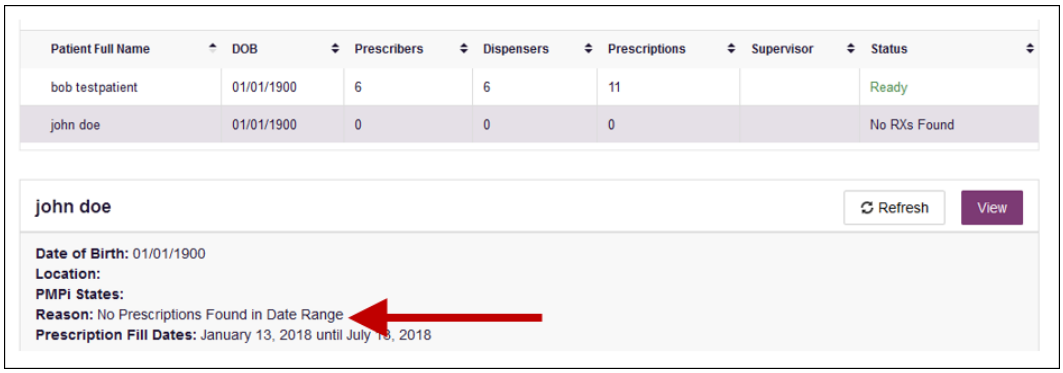
4.4.3 No Prescriptions Found in Bulk Patient Search

If the **Status** column indicates **No RXs Found** for a patient, the patient exists in the database, but no prescriptions were reported for the patient in your report timeframe. Upon clicking the patient's name, **No Prescriptions Found in Date Range** will be indicated in the **Reason** field.



You may click **View** if you need to export the blank report, or you may click **Refresh** to display the Patient Request page where you can change the date range and run a new report.

4.5 My Rx

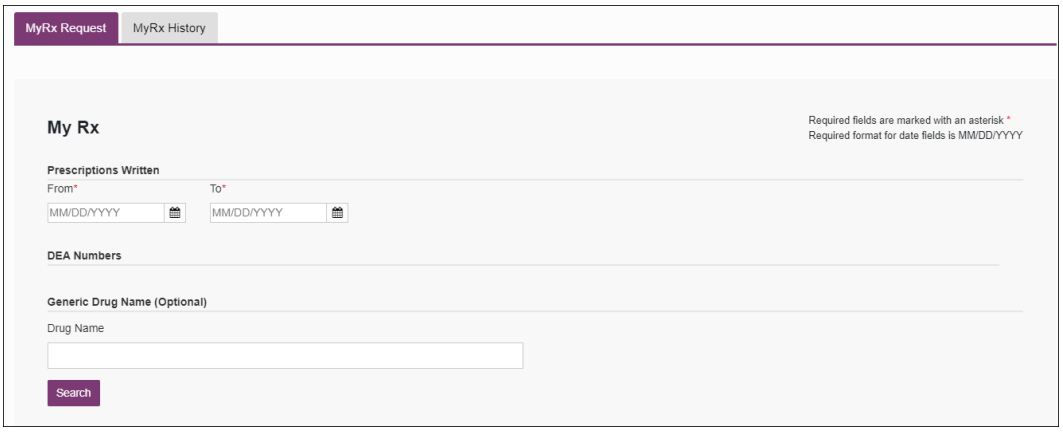
My Rx is a function for prescribers with a DEA number. It allows you to run a report that displays the dispensed prescriptions for which you were listed as the prescriber. If you are a prescriber, you will need your DEA number associated with your account to use the My Rx function.

Note: *This functionality is only available if you have a DEA number associated with your user profile.*

To run the My Rx report:

1. Click **Menu** > **My Rx**.

   The My Rx search page is displayed.



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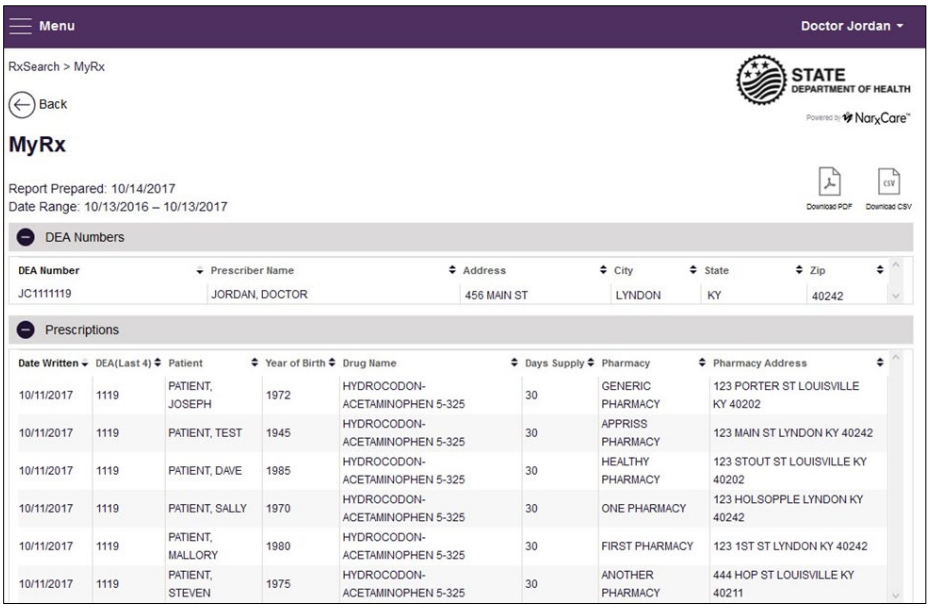
2. Enter the date range for your search in the **From** and **To** fields using the *MM/DD/YYYY* format.
3. Click the checkbox next to the DEA number(s) for which you wish to run a report.
4. If you wish to search for a specific drug, enter the generic drug name in the **Drug Name** field.
5. Click **Search**.

   Your report results are displayed. If configured by your PMP Administrator, you may click **Download PDF** or **Download CSV** to export your report results.



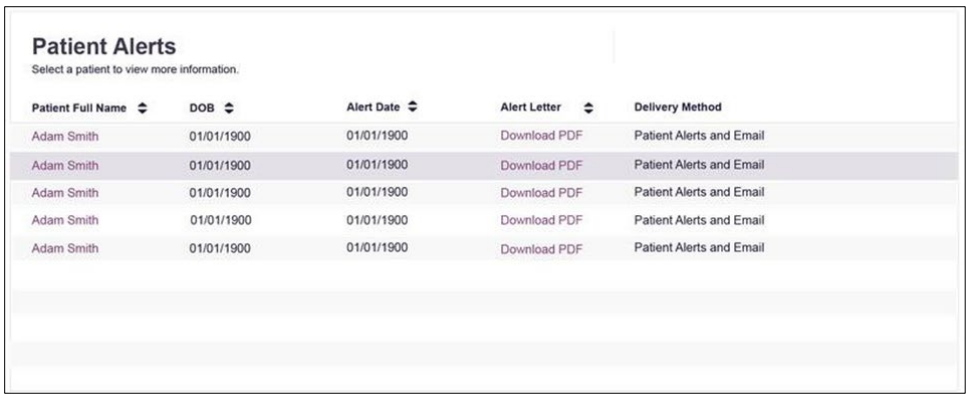
4.6 Clinical Patient Alerts

This function displays available clinical alerts for your patients.

Note: *This section is user role dependent, meaning that certain roles will be unable to view this section.*

To access these alerts, click **Menu** > **Patient Alerts**.

The **Patient Alerts** page is displayed.



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- New alerts (i.e., those that have not been viewed) are displayed in **bold** with the word "NEW" next to them.
- You can download the letter associated with the alert by clicking **Download PDF**.
- You can view the **Patient Request** associated with a patient by clicking the patient's name.

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5 User Profile

The **User Profile** section of the PMP AWARxE menu allows you to manage your AWARxE user profile, including:

- Viewing and updating your profile information
- Setting your default PMP InterConnect states
- Managing your delegate account(s)
- Updating or resetting your password

5.1 My Profile

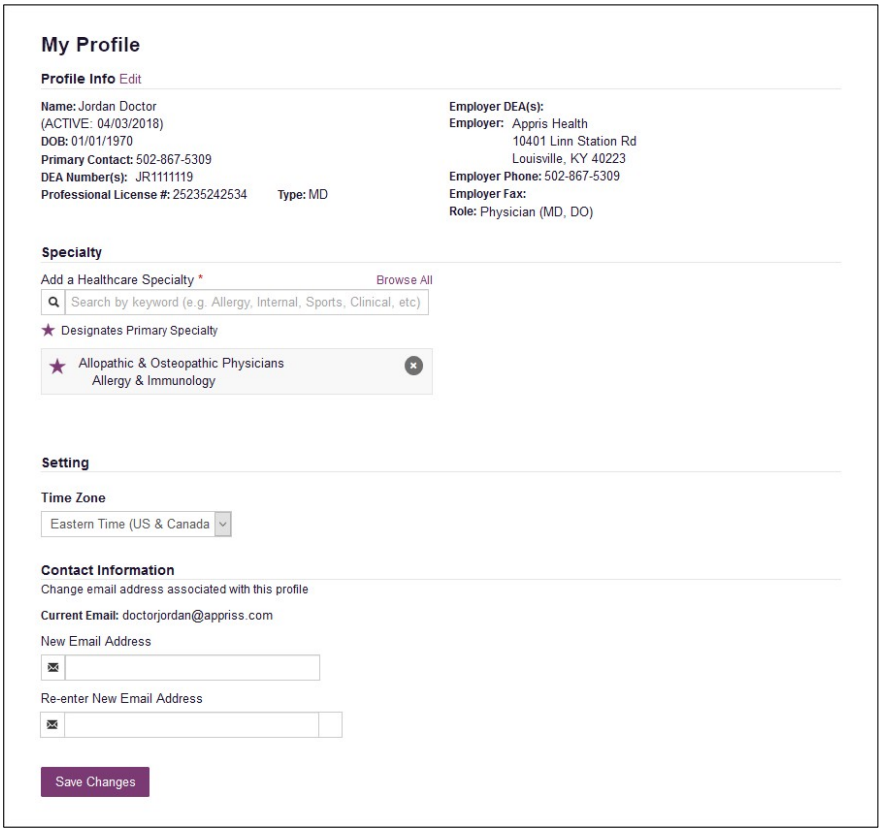
My Profile allows you to view your account demographics, including user role, license numbers, etc., as well as update your contact information, healthcare specialty, time zone, and supervisor(s) (if you are a delegate).

Note: *If you need to update your personal or employer identifiers (including DEA/NPI/NCPDP numbers), please contact your State Administrator.*

To update your account:

1. Click **Menu** > **My Profile**.

   The **My Profile** page is displayed.



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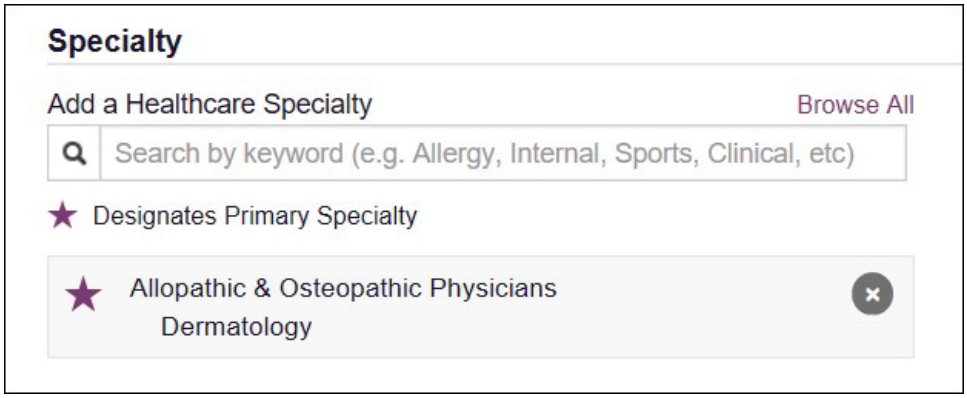
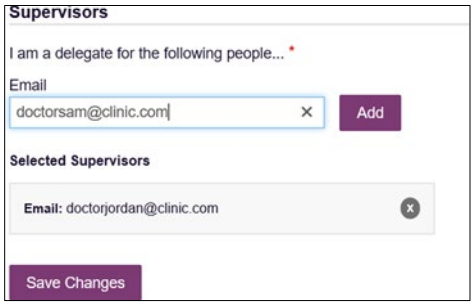
2. Update your information as necessary. The following notes may be helpful in updating your information:
   - **Healthcare Specialty:** You can add or update your healthcare specialty in the **Specialty** section of the page. Search for your specialty by typing a few characters into the **Healthcare Specialty** field or click **Browse All** to view all available specialties and select yours from the list. If you have multiple specialties, you can designate your primary specialty by clicking the star icon to the left of the specialty. To remove a specialty, click the "x" button to the right of the specialty.



   - **Updating Time Zone:** To update your time zone, select the correct time zone from the **Time Zone** drop-down.
   - **Adding Supervisors:** If you are a delegate, you may add supervisors to or remove supervisors from your account in the **Supervisors** section of the page. To add a supervisor, enter the supervisor's email address, and then click **Add**. To remove a supervisor, click the "x" button next to the supervisor.



   - **Contact Information:** You may update the email address and mobile phone number associated with your account in the **Contact Information** section of the page.

     To update the email address associated with your account, enter the new email address in the **New Email Address** field, then re-enter it in the **Re-enter Email Address** field. Once your changes have been saved, you will receive an email asking you to verify the new email address. Please ensure that you click the link in the verification email to verify your new email address.

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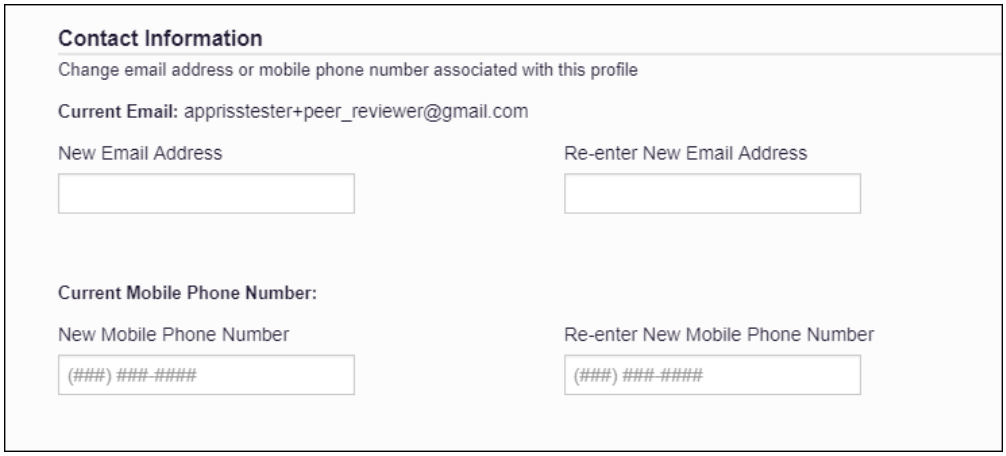
***Note**: The verification link is only valid for 20 minutes. If you click the verification link after it has expired, you will be sent a new link.*

To update the mobile phone number associated with your account, enter the new phone number in the **New Mobile Phone Number** field, then re-enter it in the **Re-enter New Mobile Phone Number** field.



3. Once you have made all necessary changes, click **Save Changes**.

5.2 Setting Default PMP InterConnect States

PMP AWARxE is configured to integrate with PMP InterConnect to expand your search capabilities when researching a patient's prescription history. This feature allows you to configure states to be selected by default when performing a **Patient Request**.

To set your default PMP InterConnect states:

1. Click **Menu** > **Default PMPi States**.

   The **Default InterConnect PMPs** page is displayed.

2. Click the checkbox next to the state(s) you would like to be selected by default when performing a **Patient Request**.
3. Click **Update Defaults**.

   Your selections are saved and will be selected by default when you create a **Patient Request**.

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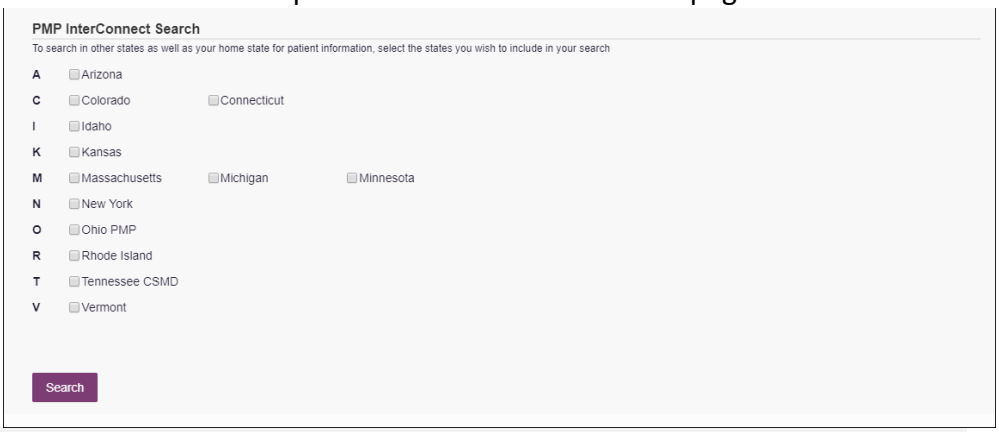
Note: *You can de-select default states as necessary—selecting default states does not require you to search for those states every time.*

5.2.1 Using PMP InterConnect with a Patient Rx Search

1. When creating a new **Patient Request,** the list of available PMP InterConnect states is provided at the bottom of the page.



Note: *Available states are dependent upon your state's configurations and your user role.*

Notes:

- *The report does not separate prescription information on a state-by-state basis. It incorporates all information from all sources into a single report.*
- *Only an exact name match will return results from interstate searches. There will not be a multiple patient pick list displayed for patients who do not have an exact match.*

2. Click to select state(s) from which you wish to obtain results. You may also click **Select All** to select all available states.
3. Once you click **Search**, PMP AWARxE submits the request to the selected states' PMP Interconnect systems. Results from those states are then blended into the final **NarxCare Report**.

5.3 Delegate Management

If you are a supervisor, the **Delegate Management** function allows you to approve or reject new delegates or remove existing delegates from your account. Supervisors will be required to review all delegate relationships every 6 months.

5.3.1 Approving and Rejecting Delegates

If a user registers as a delegate and selects you as their supervisor, you will receive email notification that a delegate account is pending your approval.

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Note: *If the request is not acted upon, the system will send follow-up emails advising you that action is still required.*

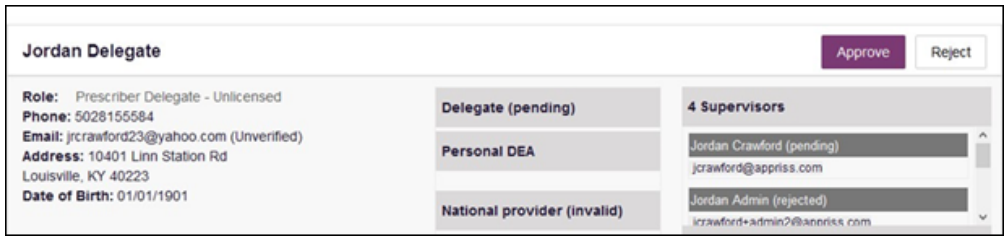
Once you have received the email notification:

1. Log in to PMP AWARxE.
2. Click **Menu** > **Delegate Management**.

   The **Delegate Management** page is displayed.

Note: *New delegates are identified with a status of "Pending."*

3. Click the delegate's name to display their information in the detail card at the bottom of the page.



4. Click **Approve** to approve the delegate;

   Or

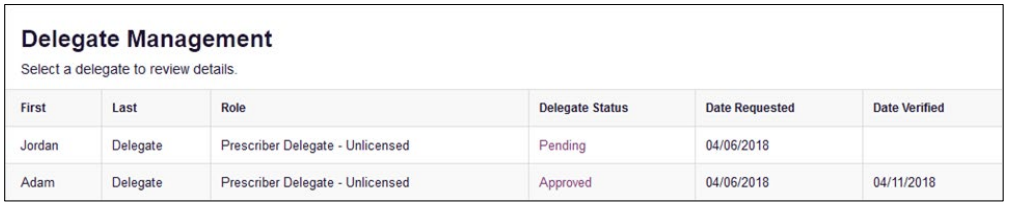
5. Click **Reject** to reject the delegate. If rejected, the delegate will be removed.

5.3.2 Removing/Deactivating Delegates

If you need to deactivate a delegate from your account:

1. Click **Menu** > **Delegate Management**.

   The **Delegate Management** page is displayed.



2. Click the delegate's name to display their information in the detail card at the bottom of the page.
3. Click **Remove**.

   Upon removal, the delegate's status will be returned to "*Pending*." The delegate is not removed from your delegate list.

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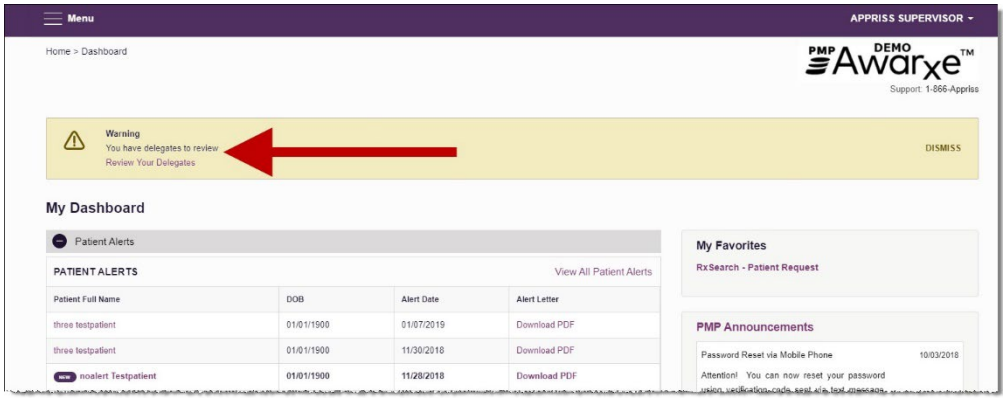
Notes:

- *If you need to add the user again at a later date, select the former delegate, then click **Approve** to add them to your account.*
- *If you need to completely remove a delegate from your account, select the former delegate, then click **Reject**. Rejecting a delegate will remove them from your account.*
- *It is your responsibility to regularly maintain your delegate list and remove access if it is no longer necessary.*

5.3.3 Delegate Reverification Workflow

Supervisors must reverify their delegates every 6 months. When it is time to reverify your delegates, upon logging in to the PMP AWARxE system, a message will be displayed on each page informing you that you have delegates to review. You may also receive email notifications alerting you that your delegate(s) must be reviewed.



In order for these delegates to continue to search the PMP AWARxE database on your behalf, you must determine whether they are still active users and, if so, reverify their accounts.

***Note:** Delegates who have not been reverified within the confirmation period will be immediately deactivated and placed back into your approval queue with a status of "Pending."*

To reverify a delegate's account:

1. Click the **Review Your Delegates** link in the warning message shown above;

   Or

2. Click **Menu > Delegate Management** located under **User Profile**.

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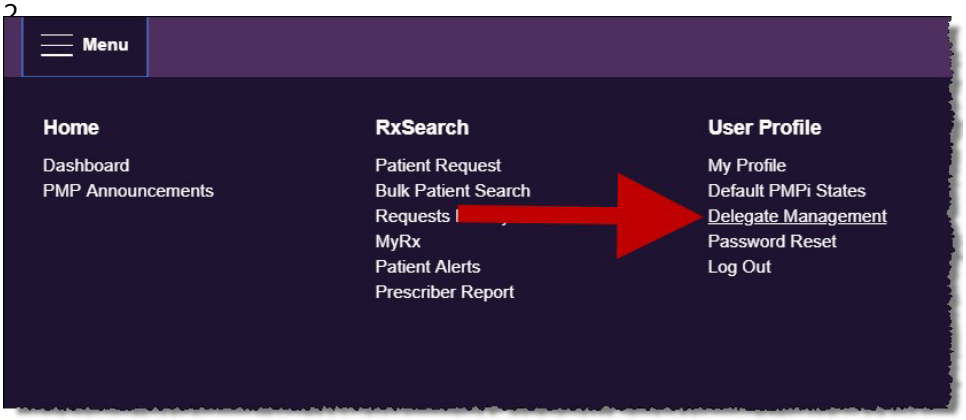
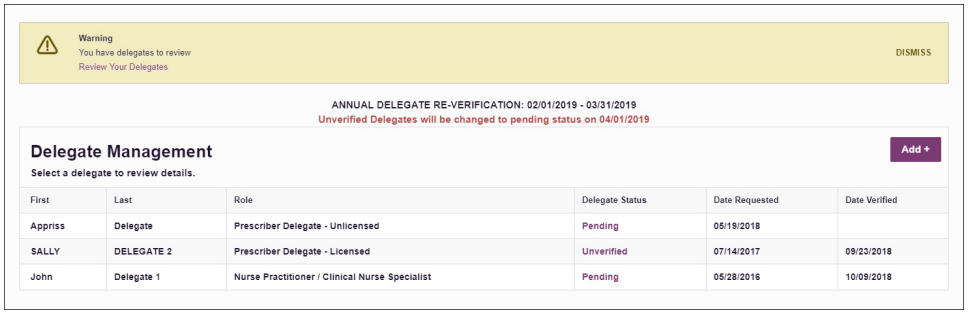
2.



The **Delegate Management** page is displayed.

- Your state's delegate reverification period is displayed on this page along with the date unverified delegates will be changed to a "*Pending*" status.
- Delegates who have not yet been reviewed are displayed with a status of *"Unverified."*



Note: *The reverification period displayed in the screenshot above does* ***not*** *reflect your state's reverification period. The reverification period displayed above was selected for testing and documentation purposes only.* ***Montana requires reverification of delegate relationships every 6 months.***

3. Click a delegate's name to review that delegate's information.

   The delegate's information is displayed below your list of delegates.

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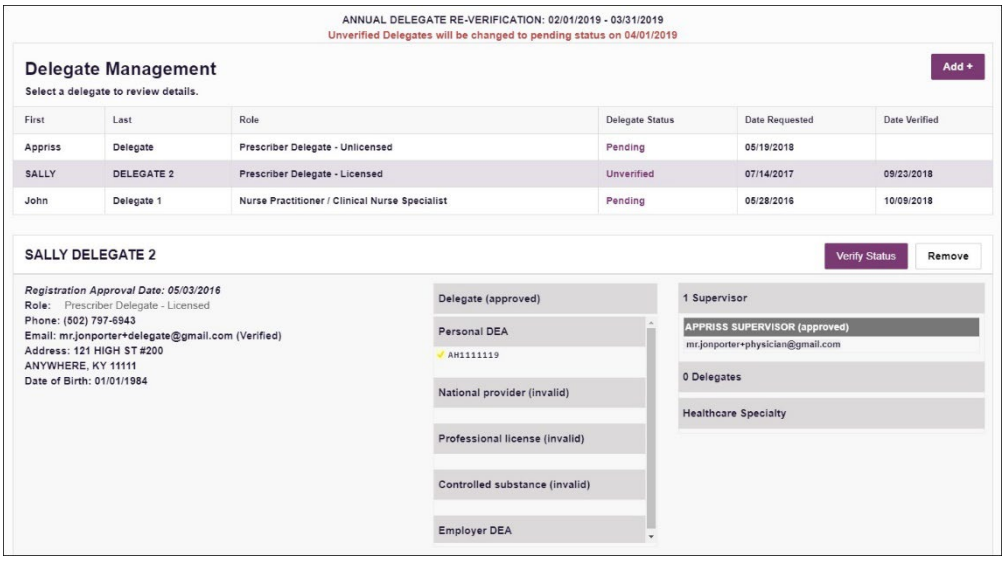


4. Review the delegate's account to determine whether they are still active.

    a. If the delegate is still active, click **Verify Status.**

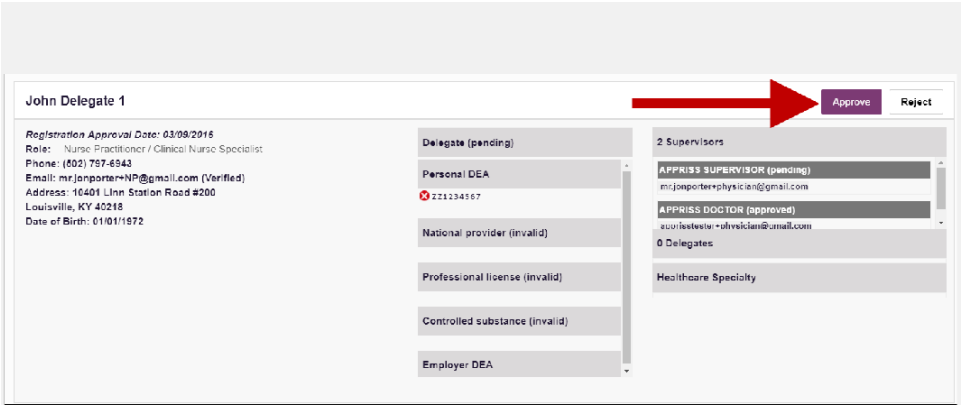
    The delegate's status changes to "*Approved,"* and they can continue to search the PMP AWARxE database and run reports on your behalf.

    OR

    1. If the delegate is inactive, click **Remove.**

    The delegate's status changes to "*Pending*," and they will be unable to search the PMP AWARxE database and run reports on your behalf.

    ***Note:** If a delegate has been placed in the "Pending" status either by your or by default as a result of missing the reverification deadline, you can reactivate their account at any time by clicking their name to view their information. Then click **Approve** on their information card.*



5.4 Password Management

Your AWARxE password expires every 60 days.

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There are two ways you can manage your password:

1. You can proactively change your password within the application before it expires by updating your current password.
2. If your password has already expired, or if you have forgotten your password, you can reset your password.

5.4.1 Updating a Current Password

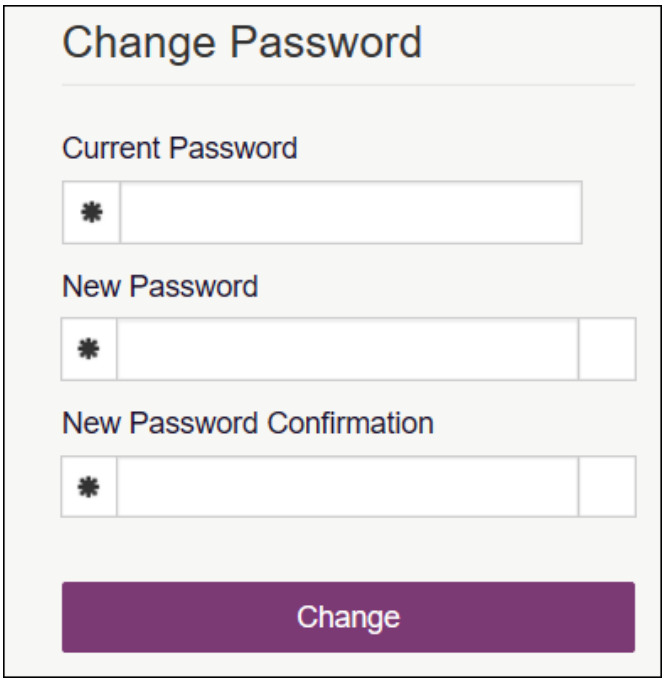
If your password has not expired, but you would like to proactively reset it, you can do so within the AWARxE application.

Note: *This functionality requires that you know your current password and are logged into PMP AWARxE.*

To update your password:

1. Click **Menu** > **Password Reset**.

   The **Change Password** page is displayed.



2. Enter your current password in the **Current Password** field.
3. Enter a new password in the **New Password** field, then re-enter it in the **New Password Confirmation** field. The password guidelines are provided below.

   Passwords must contain:

   - *At least eight (8) characters*
   - *One (1) uppercase letter*
   - *One (1) lowercase letter*

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- *One (1) special character such as !, @, #, $, etc.*

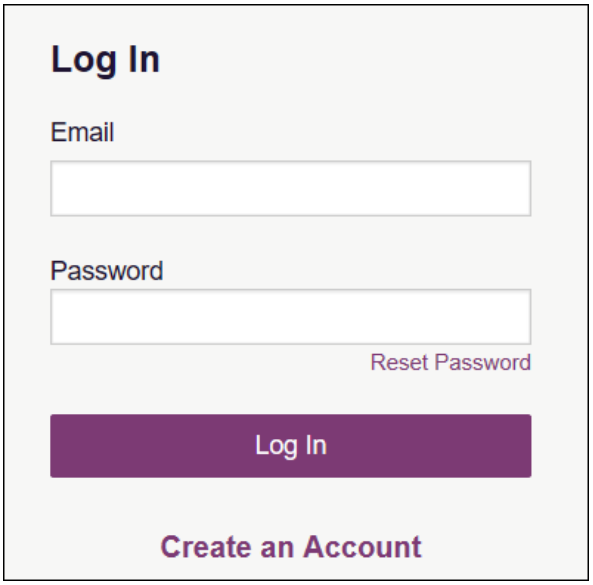
4. Click **Change**.

   Your password is updated, and you will use the new password the next time you log in to the system.

5.4.2 Resetting a Forgotten Password

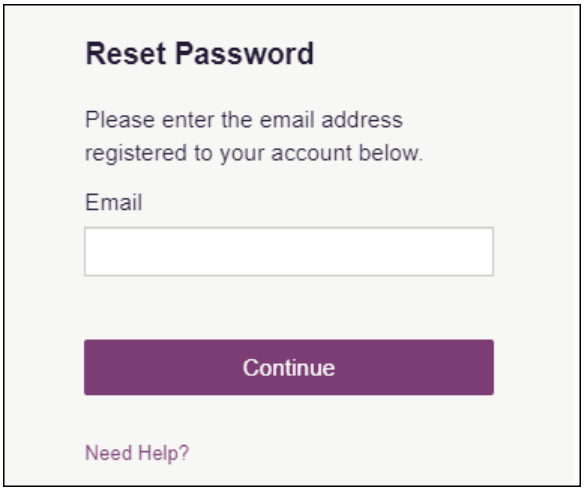
1. If you have forgotten your password or your password has expired, navigate to https://montana.pmpaware.net/.

   The **Log In** page is displayed.



2. Click **Reset Password**.

   The **Reset Password** page is displayed.



3. Enter the email address associated with your account, then click **Continue**.

   If the email address you provided is valid and registered, you will receive an email containing the link to reset your password. Once you have received the email, click the link

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The **Change Password** page is displayed.

4. Enter a new password in the **New Password** field, then re-enter it in the **New Password Confirmation** field. The password guidelines are provided below.

   Passwords must contain:

   - *At least twelve (12) characters*
   - *One (1) uppercase letter*
   - *One (1) lowercase letter*
   - *One (1) special character such as !, @, #, $, etc.*

   You cannot reuse any of your last 12 passwords.

4. Click **Change.**

   Your password is updated, and you will use the new password the next time you log in to the system.

Notes:

- *The password reset link is only active for 20 minutes. After the time has expired, you will need to repeat steps 1–5 to generate a new password reset email.*
- *If you use the mobile reset option, the validation code is only active for 20 minutes. In addition, only the most recent code is valid (e.g., if you requested a validation code twice, only the second code would be valid).*
- *Per our security protocol, PMP AWARxE will not confirm the existence of an account. If you do not receive an email at the email address provided, follow the steps below:*
  1. Ensure you entered a valid email address.
  2. Check your Junk, Spam, or other filtered folders for the email.
  3. If the email address is correct but you have not received the email, contact your PMP Administrator to request a new password or determine what email address is associated with your account.
  4. Add the following email addresses and domains to your contacts list, or contact your organization's IT support to have them added as safe senders:
  (a) no-reply-pmpaware@globalnotifications.com
  (b) globalnotifications.com
  (c) amazonses.com

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6 Assistance and Support

6.1 Technical Assistance

If you need additional help with any of the procedures outlined in this guide, you can:

- Contact Bamboo Health at 1-833-307-0309;

  OR
- Create a support request at the following URL: https://pmpawarxe.zendesk.com/hc/en-us/

Technical assistance is available 24 hours per day, 7 days per week, 365 days per year.

6.2 Administrative Assistance

If you have non-technical questions about the Montana Prescription Drug Registry,please contact:

Montana Prescription Drug Registry

Webpage: www.mpdr.mt.gov
Phone: 406-841-2240
Email: dlibsdmpdr@mt.gov

6.3 Montana Statutes and Rules

Montana Code Annotated (MCA) 37-7-1501 through 1515 are available online here.

Administrative Rules of Montana (ARM) 24.174.1701 through 1715 are available here.

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7 Document Information

7.1 Disclaimer

Bamboo Health has made every effort to ensure the accuracy of the information in this document at the time of printing. However, information is subject to change.

7.2 Change Log

Version	Date	Chapter/Section	Change Made
1.0	03/03/2021	N/A	N/A; initial version
1.1	07/26/2021	Global	Updated screenshots as necessary to reflect updates made to the system to ensure that it is ADA compliant.
1.2	11/19/2021	4/RxSearch	Updated screenshots to reflect the new tiles layout
		Appendix A/NarxCare	
2.0	08/05/2022	Global	Updated guide to reflect Bamboo Health branding
		Appendix A/NarxCare	Updated appendix to be legally compliant

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Appendix A: NarxCare

Introduction to NarxCare

All authorized users have access to an advanced patient support tool called NarxCare. In addition to the existing functionality and the current patient PMP report, NarxCare offers a representation of the PMP data in an interactive format to help physicians, pharmacists, and care teams access and more quickly and easily comprehend the data to aid in clinical decisions and provide improved patient safety and outcomes. NarxCare also provides tools and resources that support patients' needs and connects them to treatment, when appropriate.

With this platform, healthcare providers have access to all of the features and functions of NarxCare with a consistent look and feel for users who access the solution through the web portal. It also enables delivery of NarxCare within Electronic Health Records (EHR) and Pharmacy Management Systems for those prescribers and dispensers who choose to access NarxCare through integration within their healthcare IT system.

This appendix is intended to provide an overview of the NarxCare platform and provides a breakdown of the report.

Why NarxCare?

NarxCare is a platform that helps clinicians identify, prevent, and manage substance use disorder (SUD). We know that safe prescribing practices must be part of a multi-dimensional response to this public health crisis. The NarxCare platform assists providers and pharmacies with identifying patients who may be at risk for prescription drug addiction and provides resources that clinicians can utilize to ensure that patients can be provided with the care they need. The NarxCare platform is user friendly, fast, easily integrated into a patient's electronic medical record, and interoperable with other states. We view NarxCare as an important component in our response to the current opioid crisis.

How Does NarxCare Work?

NarxCare aggregates historical and active PMP prescription data and presents color-coded, interactive, visual representations of the data. In addition, the NarxCare report has a **Resources** section that includes a Medical Assistance Treatment (MAT) locator and CDC educational resources. These resources can be used to help patients who are in need, in a meaningful way.

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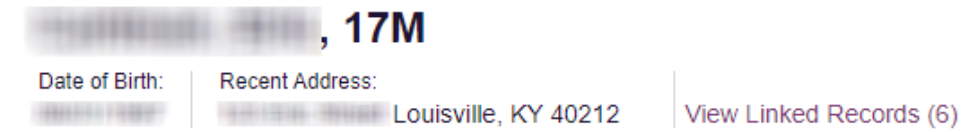
Who Has Access to NarxCare?

NarxCare is available to authorized end users, whether they are accessing NarxCare via the web portal or an integrated EHR system or pharmacy software.

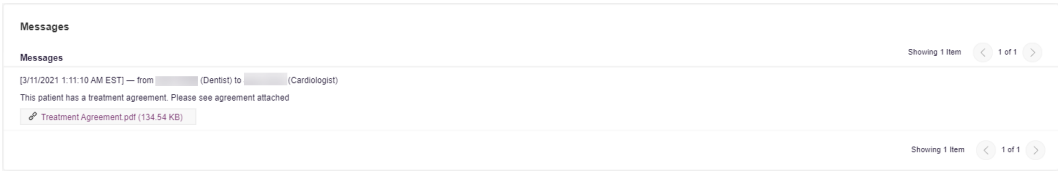
NarxCare Layout

The NarxCare report interface is displayed as tiles containing specific prescription information. The tiles displayed may vary depending on the display configured by your PMP administrator. The following overview provides common tiles you may see on your report.

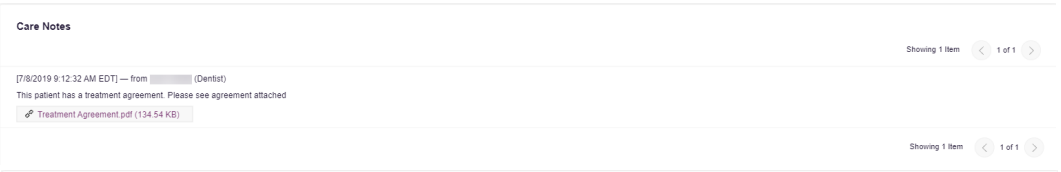
Header



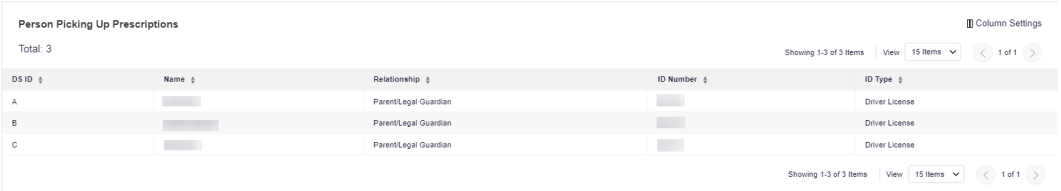
Messages



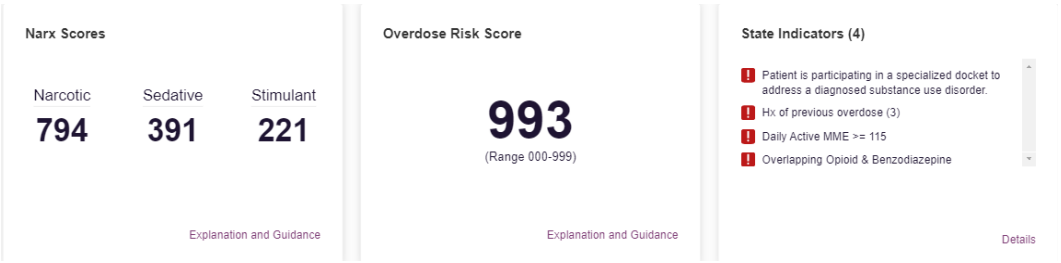
Care Notes



Person Picking UP Prescriptions



Scores & Indicators



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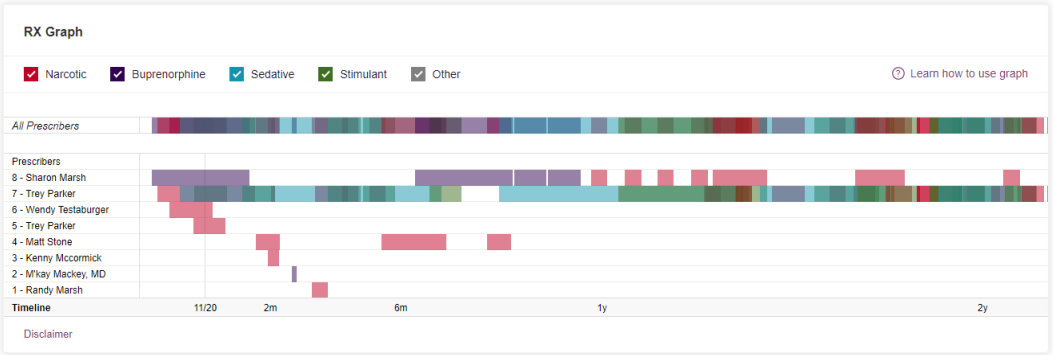
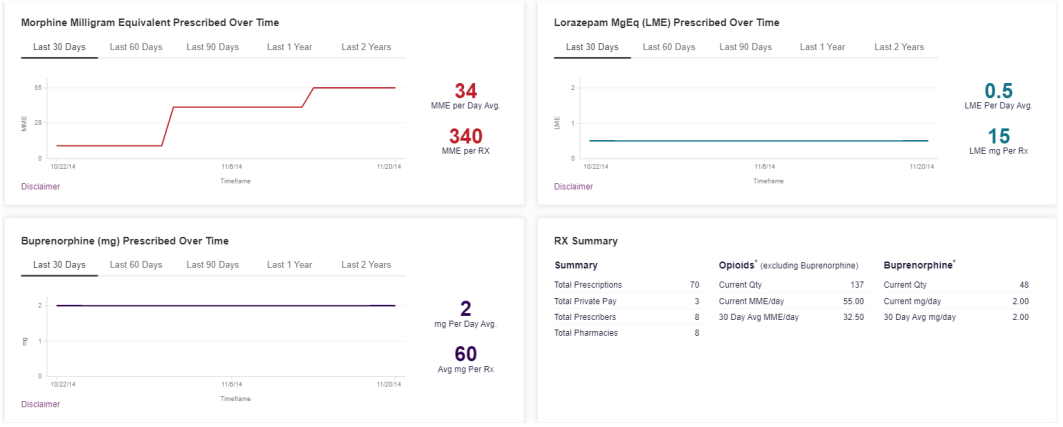
RX Graph

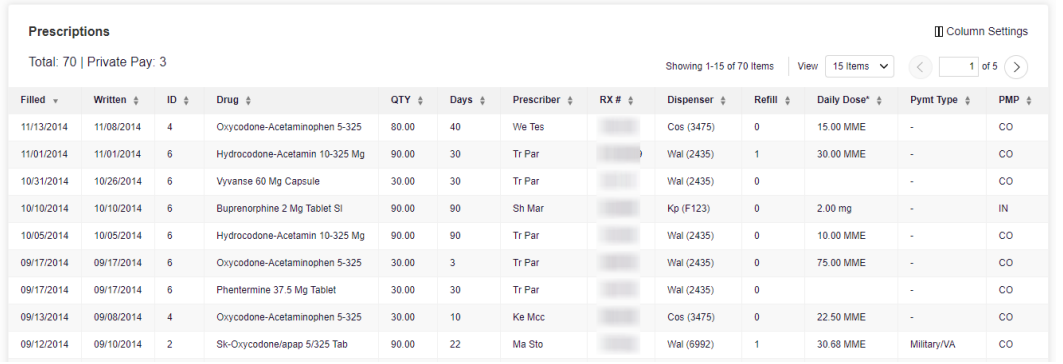


RX Summary



RX Summary Expanded

Prescription Detail



Filled	Written	ID	Drug	QTY	Days	Prescriber	RX #	Dispenser	Refill	Daily Dose*	Pymt Type	PMP
11/13/2014	11/08/2014	4	Oxycodone-Acetaminophen 5-325	80.00	40	We Tes		Cos (3475)	0	15.00 MME	-	CO
11/01/2014	11/01/2014	6	Hydrocodone-Acetamin 10-325 Mg	90.00	30	Tr Par		Wal (2435)	1	30.00 MME	-	CO
10/31/2014	10/26/2014	6	Vyvanse 60 Mg Capsule	30.00	30	Tr Par		Wal (2435)	0		-	CO
10/10/2014	10/10/2014	6	Buprenorphine 2 Mg Tablet Sl	90.00	90	Sh Mar		Kp (F123)	0	2.00 mg	-	IN
10/05/2014	10/05/2014	6	Hydrocodone-Acetamin 10-325 Mg	90.00	90	Tr Par		Wal (2435)	0	10.00 MME	-	CO
09/17/2014	09/17/2014	6	Oxycodone-Acetaminophen 5-325	30.00	3	Tr Par		Wal (2435)	0	75.00 MME	-	CO
09/17/2014	09/17/2014	6	Phentermine 37.5 Mg Tablet	30.00	30	Tr Par		Wal (2435)	0		-	CO
09/13/2014	09/08/2014	4	Oxycodone-Acetaminophen 5-325	30.00	10	Ke Mcc		Cos (3475)	0	22.50 MME	-	CO
09/12/2014	09/10/2014	2	Sk-Oxycodone/apap 5/325 Tab	90.00	22	Ma Sto		Wal (6992)	1	30.68 MME	Military/VA	CO

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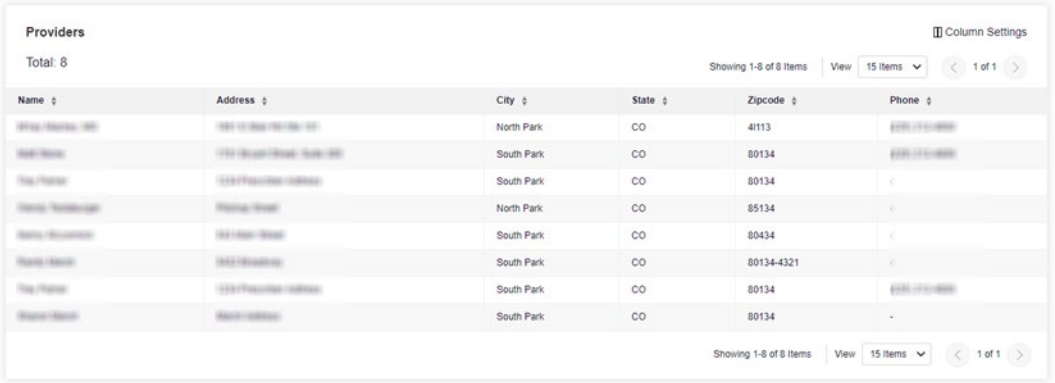
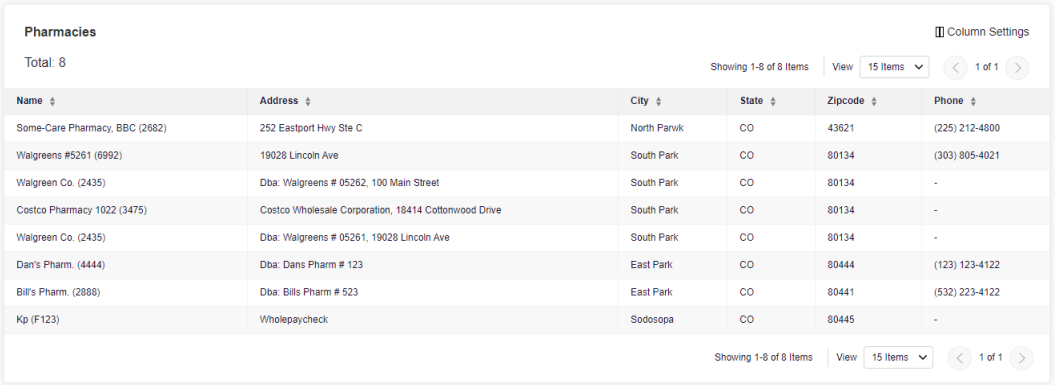
Providers



Pharmacies



NarxCare helps providers make better-informed decisions when it comes to identifying, preventing, and managing substance use disorders. An overview of each section can be found below.

Note: All the sections in the above layout may not appear in your state's NarxCare report.

NarxCare Report Details

Report Header

The NarxCare Report page heading contains several report and account-level controls:

- **Drop-down menu bar:** Clicking **Menu** allows you to navigate to all functional areas of AWARxE. For NarxCare users, the menu, which is shown on the following page, contains additional training links as well as a link to the NarxCare user guide. You can click your username for quick access to account management options such as **My Profile**, **Delegate Management**, and **Password Reset**.

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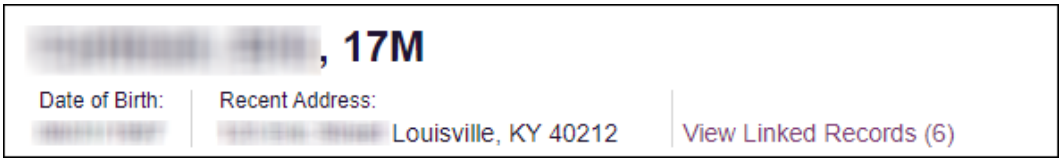
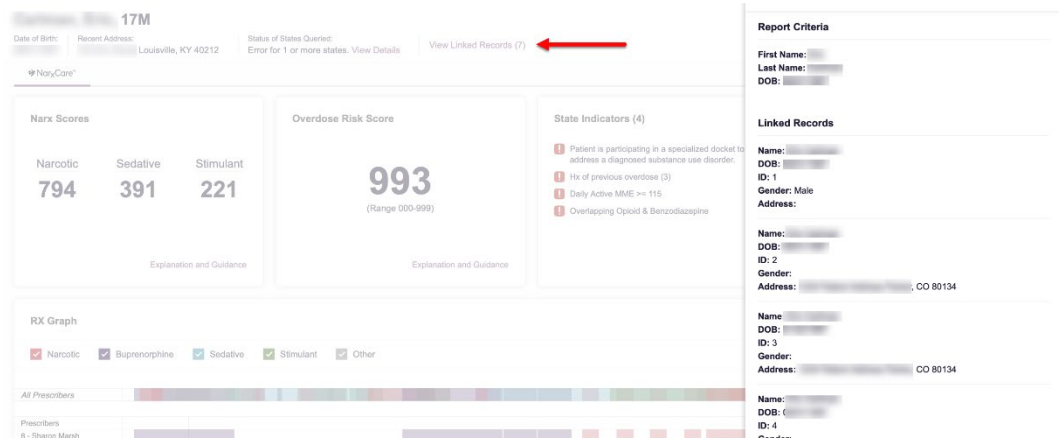
- **Patient identifying information:** The patient's name, age in years, and gender are displayed as the report header above the report tiles. Additional patient information, such as date of birth and address, can be found below this header. This information will remain visible as you scroll through the report.



You can click **View Linked Records** to display all records linked to the selected patient.



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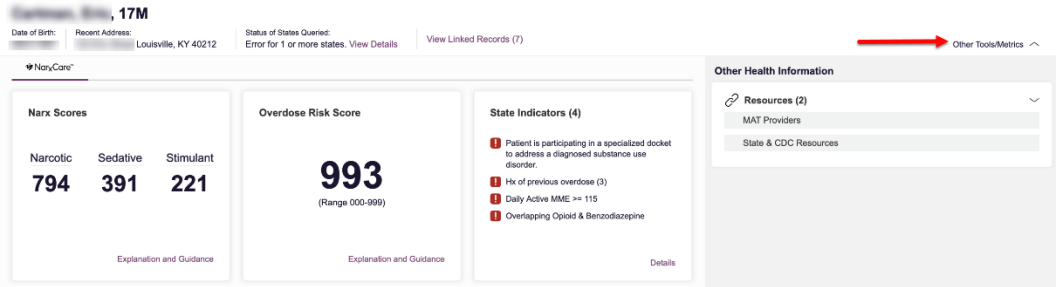
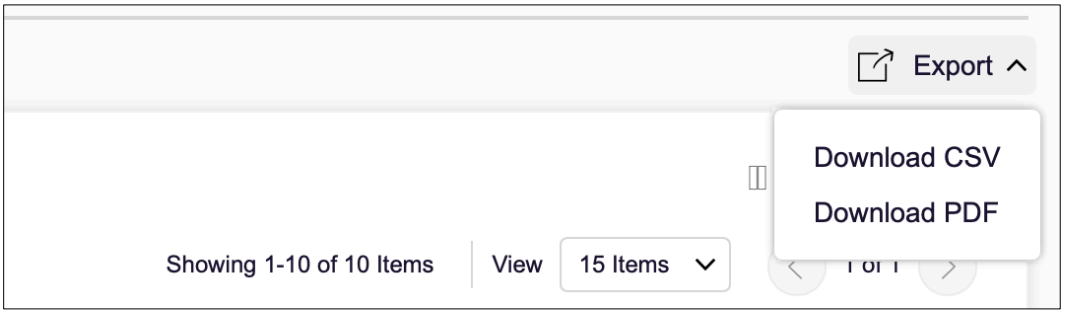
- **Other Tools/Metrics:** You can click on the **Other Tools/Metrics** drop-down, located on the right side of the page, to display the **Resources** link, which contains links to MAT providers and State & CDC resources that may be useful in managing patient referrals or reviewing CDC guidelines. Please refer to the Other Tools/Metrics section of this appendix for more information on these resources.



- **Report download links:** If you need to download a PDF or CSV version of the report, click the **Export** drop-down, then click **Download PDF** or **Download CSV**.



Report Body

The information in the body of the NarxCare Report is aimed at rapidly raising awareness of potential risk and prescription use patterns, and when required, individual prescription detail. This information is presented as tiles, many of which are interactive and will display additional information upon clicking or hovering over links and graphs within the individual tiles.

Note: *The list of tiles described below is not comprehensive; it provides a list of the most common tiles. You may not see all of the tiles described below; however, you may also see additional tiles not described below. The tiles displayed to you are configured by your PMP administrator.*

- **Scores and additional risk indicators:** The NarxCare Report includes a series of type-specific use scores, NarxCare Scores, Overdose Risk Score, and Additional Risk Indicators, which are

Note: *Please refer to the Narx Scores, Overdose Risk Score, and Additional Risk Indicators sections of this document for more information on those scores and*

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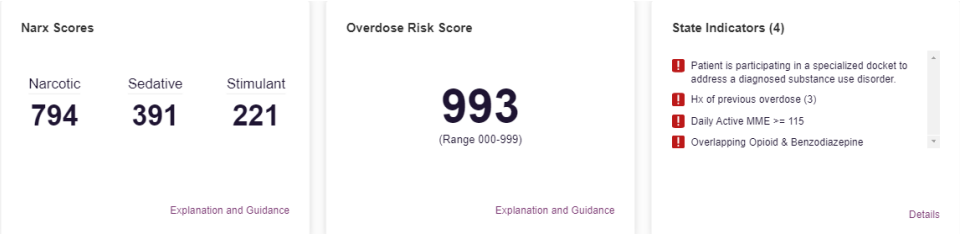
located in the Risk Indicators section of the report. These scores and other elements are often automatically returned to the requesting system as discrete data. Requesting systems receiving such data can choose to display the scores within the native electronic health record or pharmacy management system, and many systems choose to display this data inthe patient header, face sheet, or alongside patient vital signs.



- **State Indicators:** The State Indicators tile displays Clinical Alerts as configured by your PMP Administrator. The Clinical Alerts feature delivers custom alerts and notifications to prescribers to alert them when patients meet or exceed the specified thresholds. *Note that the alerts that are available to you and the thresholds associated with those alerts are configured by your PMP Administrator.* The Clinical Alerts that may be displayed in this section are listed in the table below.

Alert Type	Description
Prescriber & Dispenser Thresholds	Generates an alert when the number of prescribers and dispensers specified by your PMP Administrator is met or exceeded within a set time period.
Daily Active MME Threshold	Generates an alert when the daily active morphine milligram equivalent (MME) is greater than or equal to the value specified by your PMP Administrator.
Opioid & Benzodiazepine Threshold	Generates an alert when opioids and benzodiazepines are prescribed within the time period set by your PMP Administrator.
Daily Active Methadone Threshold	Generates an alert when the daily active MME for methadone is greater than or equal to the value specified by your PMP Administrator.
Opioid Consecutive Days Threshold	Generates an alert when opioids have been received daily for longer than the time period set by your PMP Administrator.

If configured by your PMP Administrator, this section may also display below-threshold alerts indicating that the patient has not met or exceeded the thresholds associated with that alert.

Alerts for thresholds that have been met or exceeded are displayed in red.

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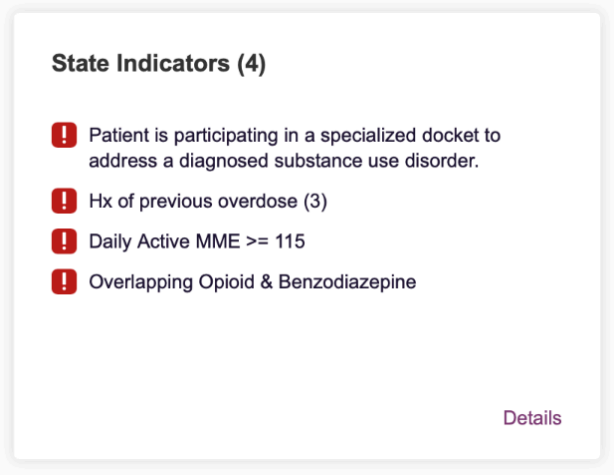
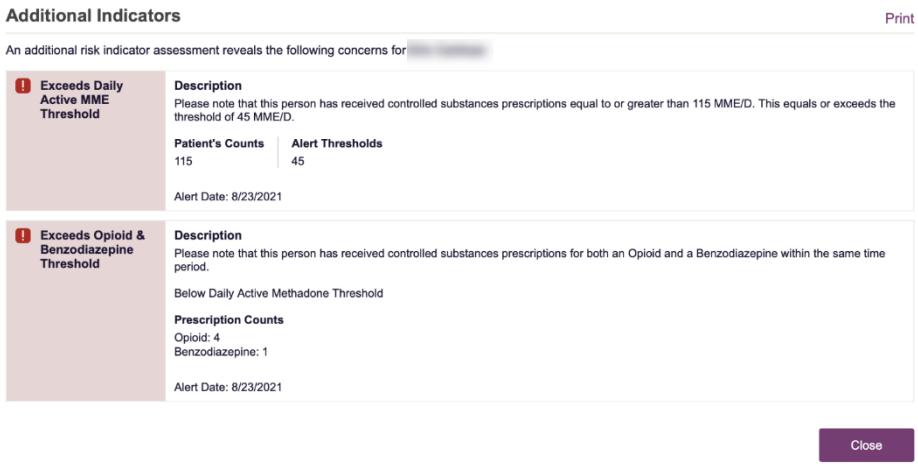
Alerts for thresholds that have not been met (below-threshold alerts) are displayed in gray.



You can view a detailed description of the Clinical Alerts displayed in this section by clicking the **Details** link located below the alerts. Once you click this link, the alert details module is displayed.



Notes:

If configured by your PMP Administrator, this module may also display an Explanation section containing additional information, provided by the PMP Administrator, about why you are receiving this alert.

These alerts and indicators may corroborate and/or alleviate any concerns raised by the patient's prescription information. In all cases, if a provider determines that inappropriate risk exists for a patient, they should seek additional information, discuss the risk concern with the patient, and choose appropriate medical care options that are in the best interest of the patient.

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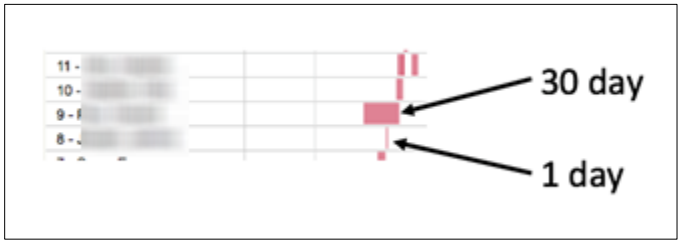
- **Rx Graph:** The Rx Graph tile allows you to rapidly see important patterns and levels of use.

  - Prescriptions are color coded and can be selected or deselected at the top of the graph.
    - Narcotics (opioids) = red
    - Buprenorphines = purple
    - Sedatives (benzodiazepines, sleep aids, etc.) = blue
    - Stimulants = green
    - Other = grey
  - The Rx Graph is reverse time ordered, meaning that the most recent prescriptions are displayed on the left side of the graph and the oldest are displayed on the right.
  - Each pixel in the graph represents one day; therefore, a 30-day prescription is represented by a rectangle about 1 cm wide and a 1–3-day prescription appears as a narrow vertical bar.



  - The Rx Graph is interactive. You can click on a prescription to view information for that prescription, or you can click and drag over multiple prescriptions to view information for the selected prescriptions.

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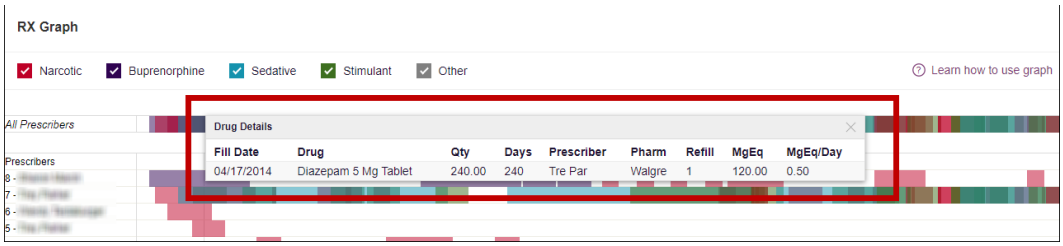
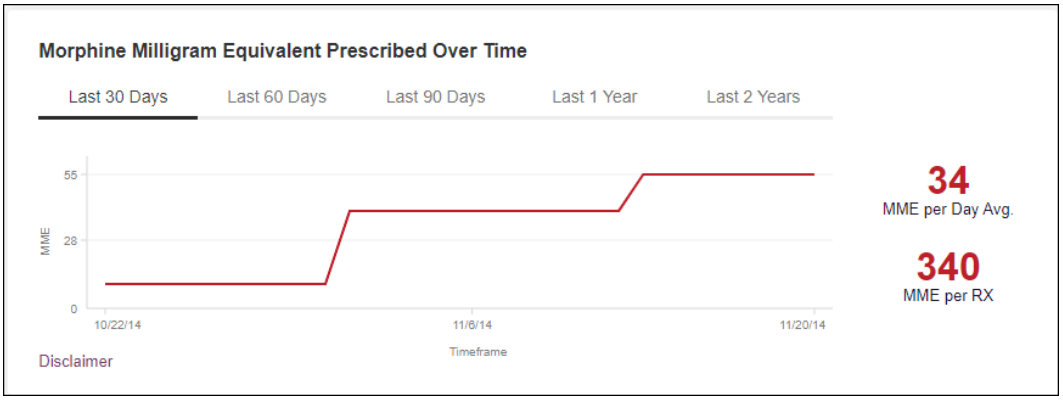
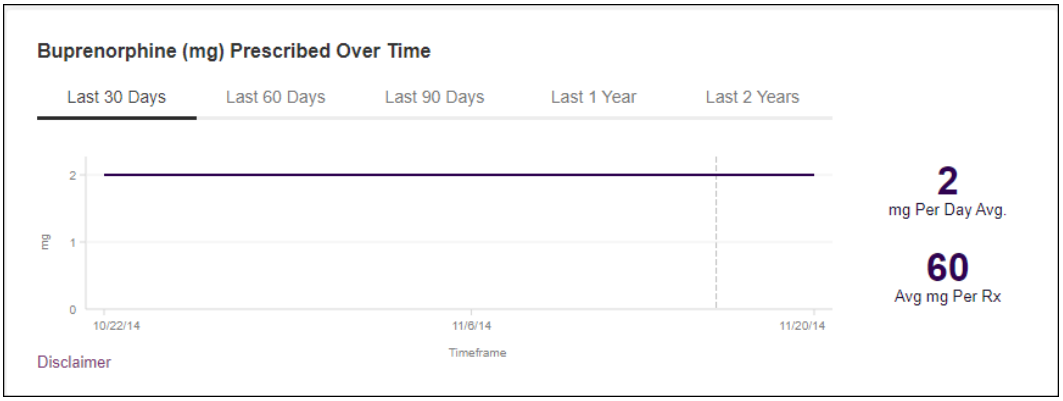
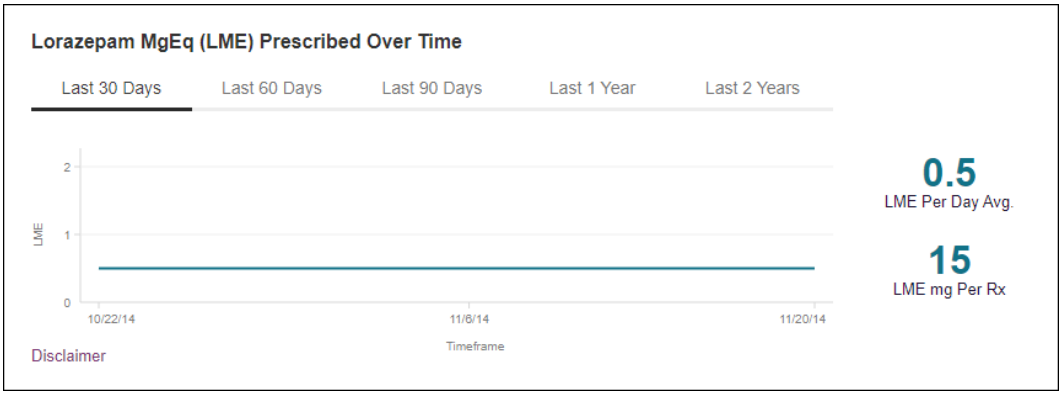


- **Other graphs:** If configured by your PMP administrator, the Morphine Milligram Equivalent Prescribed Over Time, Buprenorphine (mg) Prescribed Over Time, and Lorazepam MgEq (LME) Prescribed Over Time tiles may also be included on the report. These tiles contain graphs that provide a quick longitudinal view of daily MME, buprenorphine, and LME. Abrupt changes in these factors are often due to overlapping prescriptions.







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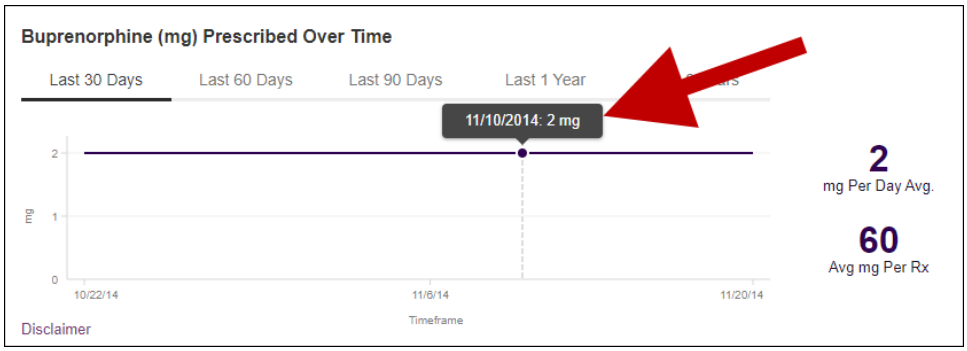
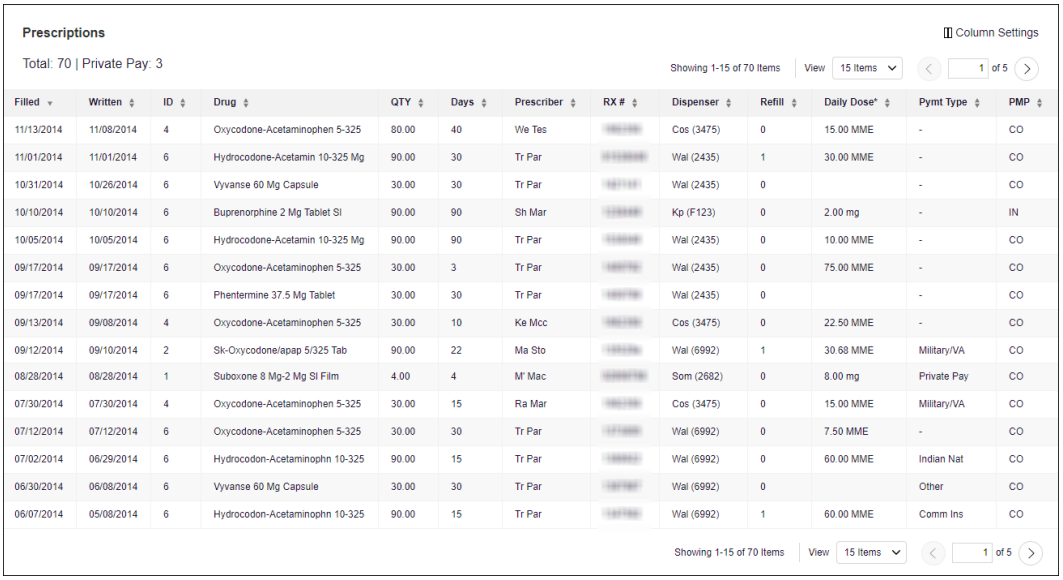
- You can hover over the timeline in all of these graphs to display information for a specific day.



- You can customize the length of time for which you wish to view information by clicking **Last 30 Days** (displayed by default), **Last 60 Days**, **Last 90 Days**, **Last 1 Year**, or **Last 2 Years** at the top of each graph.

Prescription Detail

Each prescription dispensed to the patient is presented in the Prescriptions tile. If desired, you can use the arrows next to each column header (⬍) to sort the table by that column. You can also hover your cursor over a prescriber or pharmacy to view additional information such as prescriber or pharmacy full name, address, and DEA number.



Filled	Written	ID	Drug	QTY	Days	Prescriber	RX #	Dispenser	Refill	Daily Dose*	Pymt Type	PMP
11/13/2014	11/08/2014	4	Oxycodone-Acetaminophen 5-325	80.00	40	We Tes		Cos (3475)	0	15.00 MME	-	CO
11/01/2014	11/01/2014	6	Hydrocodone-Acetamin 10-325 Mg	90.00	30	Tr Par		Wal (2435)	1	30.00 MME	-	CO
10/31/2014	10/26/2014	6	Vyvanse 60 Mg Capsule	30.00	30	Tr Par		Wal (2435)	0		-	CO
10/10/2014	10/10/2014	6	Buprenorphine 2 Mg Tablet Sl	90.00	90	Sh Mar		Kp (F123)	0	2.00 mg	-	IN
10/05/2014	10/05/2014	6	Hydrocodone-Acetamin 10-325 Mg	90.00	90	Tr Par		Wal (2435)	0	10.00 MME	-	CO
09/17/2014	09/17/2014	6	Oxycodone-Acetaminophen 5-325	30.00	3	Tr Par		Wal (2435)	0	75.00 MME	-	CO
09/17/2014	09/17/2014	6	Phentermine 37.5 Mg Tablet	30.00	30	Tr Par		Wal (2435)	0		-	CO
09/13/2014	09/08/2014	4	Oxycodone-Acetaminophen 5-325	30.00	10	Ke Mcc		Cos (3475)	0	22.50 MME	-	CO
09/12/2014	09/10/2014	2	Sk-Oxycodone/apap 5/325 Tab	90.00	22	Ma Sto		Wal (6992)	1	30.68 MME	Military/VA	CO
08/28/2014	08/28/2014	1	Suboxone 8 Mg-2 Mg Sl Film	4.00	4	M' Mac		Som (2682)	0	8.00 mg	Private Pay	CO
07/30/2014	07/30/2014	4	Oxycodone-Acetaminophen 5-325	30.00	15	Ra Mar		Cos (3475)	0	15.00 MME	Military/VA	CO
07/12/2014	07/12/2014	6	Oxycodone-Acetaminophen 5-325	30.00	30	Tr Par		Wal (6992)	0	7.50 MME	-	CO
07/02/2014	06/29/2014	6	Hydrocodon-Acetaminophn 10-325	90.00	15	Tr Par		Wal (6992)	0	60.00 MME	Indian Nat	CO
06/30/2014	06/08/2014	6	Vyvanse 60 Mg Capsule	30.00	30	Tr Par		Wal (6992)	0		Other	CO
06/07/2014	05/08/2014	6	Hydrocodon-Acetaminophn 10-325	90.00	15	Tr Par		Wal (6992)	1	60.00 MME	Comm Ins	CO

Showing 1-15 of 70 Items View 15 Items 1 of 5

Provider and Pharmacy Detail

Provider and pharmacy information, including full name, address, and DEA number (if applicable), is presented in the Providers and Pharmacies tiles.

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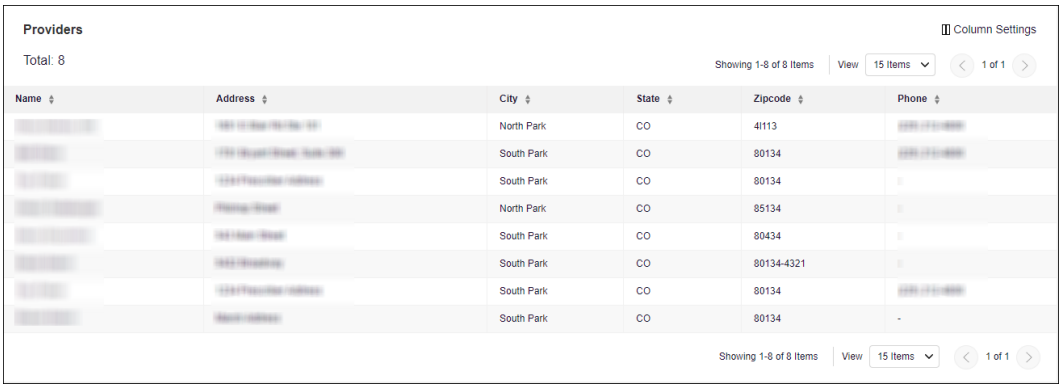
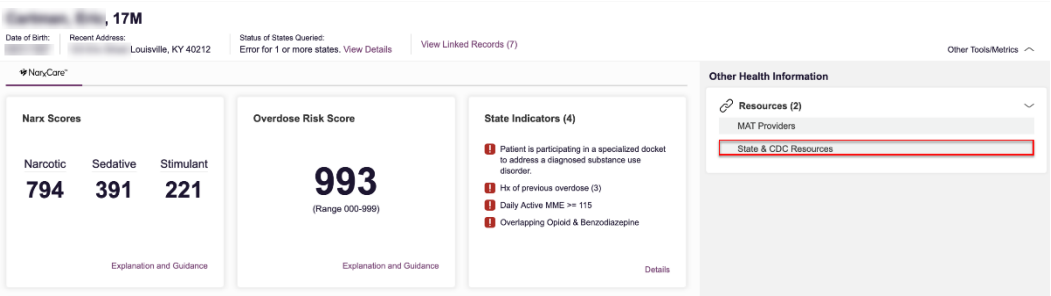


Other Tools/Metrics

Resources

The **Resources** link provides easy access to treatment locators and State & CDC documents.



- **MAT Providers:** The MAT Providers pop-up window locates the 30 closest providers who are listed in the Substance Abuse and Mental Health Services Administration (SAMHSA) buprenorphine treatment locator database.

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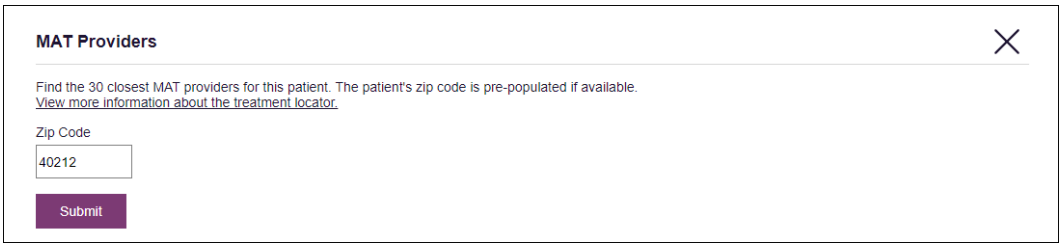
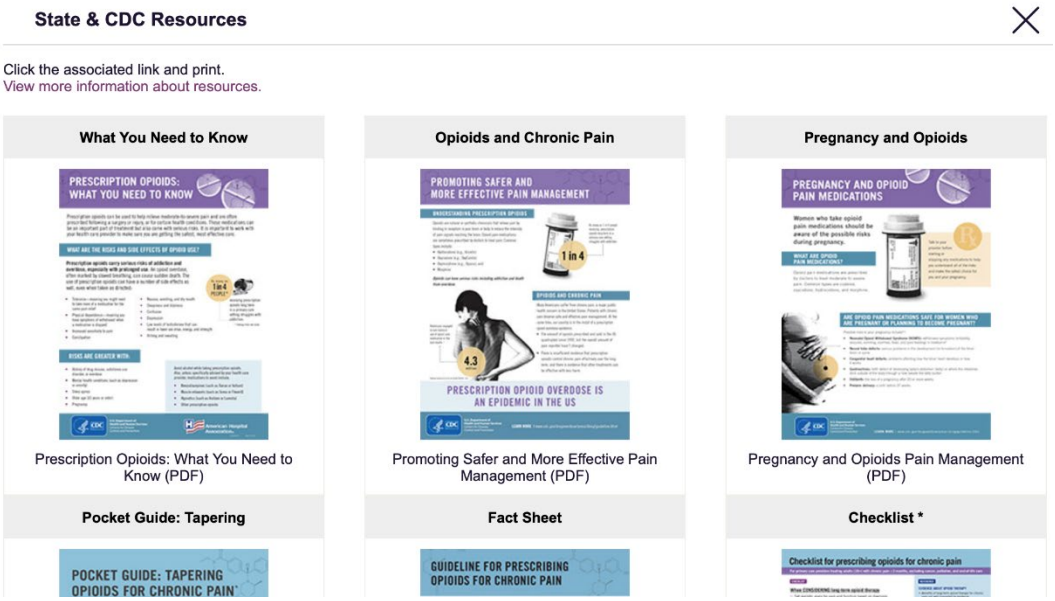


The patient's zip code is pre-populated but can be edited. Click **Submit** to generate a PDF that can be viewed and printed.

This data is provided by the Substance Abuse and Mental Health Services Administration (SAMHSA). View more information about the treatment locator here.

- **State & CDC Resources:** The State & CDC Resources pop-up window, which is shown on the following page, provides a series of State & CDC documents pertaining to both providers and patients that can be referenced quickly.



To assist providers in educating their patients, printable CDC pamphlets are also available. In addition to CDC-provided resources, specific resources, in coordination with the Bureau of Substance Addiction Services (BSAS), will also be available. More information about the CDC resources can be found here.

Narx Scores

The NarxCare application delivers several elements of discrete data and a visually enhanced, interactive PDMP report. Contained in the report, and delivered as discrete data, are three type-specific *use* scores called Narx

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Scores. These Narx Scores numerically represent the PDMP data for a patient.

Narx Scores are calculated for narcotics (opioids), sedatives, and stimulants and have the following characteristics:

1. Each score consists of three digits ranging from 000–999.
2. The last digit of each score represents the number of active prescriptions of that type. For example, a Narx Score of 504 indicates the patient should have four active narcotic prescriptions according to dispensation information in the PDMP.
3. The scores correspond to the number of literature-based risk factors that exist within the PDMP data. These risk factors include:
   a. The number of controlled substance prescribers
   b. The number of pharmacies that dispensed a controlled substance
   c. The amount of medication dispensed (often measured in milligram equivalencies)
   d. The number of times prescriptions of a similar type overlap from different prescribers
4. The time elapsed for any risk factor serves to decrease its contribution to the score. For example, 1,000 MME dispensed within the last month will elevate the score *more than* 1,000 MME dispensed one year ago.
5. The distribution of Narx Scores for patients found in a PDMP is approximated as follows:
   a. 75% score less than 200
   b. 5% score more than 500
   c. 1% score more than 650

The Narx Scores were designed such that:

6. Patients who use small amounts of medication with limited provider and pharmacy usage will have **low scores**.
7. Patients who use large amounts of medications in accordance with recommended guidelines (single provider, single pharmacy, etc.) will have **mid-range scores**.
8. Patients who use large amounts of medications while using many providers and pharmacies, and with frequently overlapping

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prescriptions, will have **high scores**.

Narx Score Algorithm

Relative Scoring

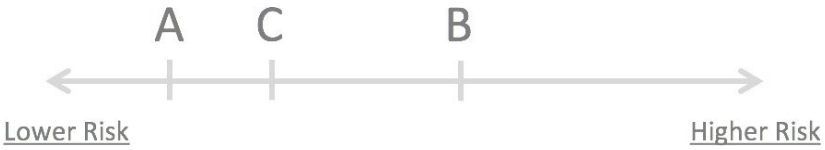
Narx Scores represent a *relative scoring* system wherein the risk factors representing use withina PDMP report are counted and then converted to a reference value that ranges from 0–99.

These reference values correlate with a percentile measurement of that use within the PDMPpopulation.

A single point measurement of total MME in the last 60 days can be used to illustrate thisconcept further using the following three patients:

• Patient A:	160 MME
• Patient B:	4,800 MME
• Patient C:	1,050 MME

If we were to place these three patients on a line of relative risk, we could intuit a linearrelationship based on MME, which could be depicted as follows:



This depiction has no boundaries to the left or right so these patients could just as easily bedrawn as follows:

The NarxCare algorithm uses a unique strategy to establish boundaries of use by converting all measured variables, such as 60-day MME, to a scaled value between 0 and 99. This was done byevaluating a large PDMP population and measuring the 60-day MME value for every patient.

This set of data was then used to create a reference table roughly equating to a percentile in thepopulation. If we add the scaled value to each example patient's 60-day MME we get:

• Patient A:	160 MME	|	20
• Patient B:	4,800 MME	|	90
• Patient C:	1,050 MME	|	65

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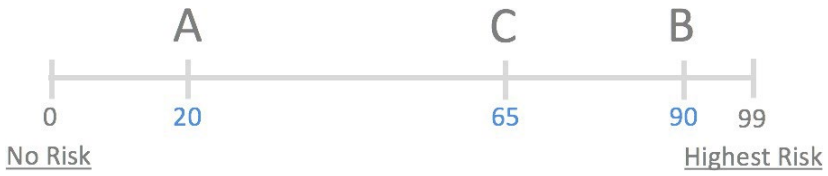
If we apply these new scaled values to our risk diagram and create a left and right boundary of 0and 99, we get:



Interestingly, the population-based scaled values indicate that Patient B and C are closer to eachother than might otherwise be suspected. In this case, we can also say that Patient B has used more MME in the last 60 days than 90% of the rest of the PDMP population.

Time Periods

The NarxCare algorithm evaluates a PDMP record using four different, overlapping time periods. In each time period, the risk factor being evaluated is tabulated and then converted to a scaled value. These reference tables exist for all the risk factors being evaluated and cover all four time periods. In general, as the raw value count (i.e., number of prescribers) increases, so does the reference value (up to 99 maximum). As the time period increases, the scaled value decreases. example provider reference tables are provided below.

Prescriber Count	2mo Scaled	6mo Scaled	1 yr Scaled	2yr Scaled
0	0	0	0	0
1	19	12	8	6
2	36	22	16	11
3	51	32	23	16
4	64	41	30	21
5	75	49	37	26
6	85	57	43	30
And so on …				

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Pharmacy Count	2mo Scaled	6mo Scaled	1 yr Scaled	2yr Scaled
0	0	0	0	0
1	25	16	13	10
2	45	31	25	19
3	63	44	35	27
4	78	56	45	35
5	90	67	54	42
6	99	76	62	49
And so on …				

Sedative LME	2mo Scaled	6mo Scaled	1 yr Scaled	2yr Scaled
0	0	0	0	0
1-4	4	6	8	10
5 - 9	8	10	13	16
10 - 14	10	12	16	19
15 - 19	20	20	23	26
20 - 24	23	23	26	29
25 - 29	24	23	26	30
And so on …				

Overlap Days	2mo Scaled	6mo Scaled	1 yr Scaled	2yr Scaled
0	0	0	0	0
1	3	2	1	1
2	6	4	3	2
3	9	5	4	3
4	11	7	6	4
5	14	9	7	5
6	16	10	8	6
And so on …				

Weighting

A Narx Score is calculated as a weighted average of the scaled values. A 50% weighting is appliedto the milligram equivalencies with the remaining risk factors making up the other 50%.

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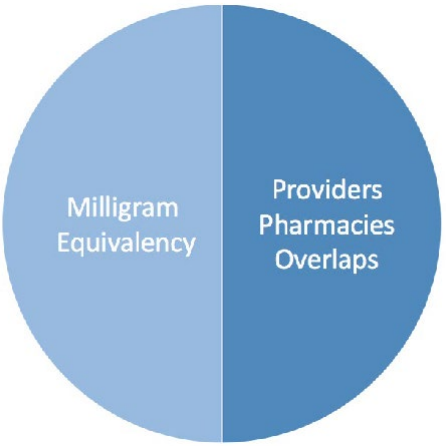

This type of weighting results in several reliable relationships. If we think of milligram equivalency as *consumption* and the combination of providers, pharmacies, and overlapscollectively as *behaviors*, we can intuit the following score categories.

	Consumption	Behaviors	Narx Score
Patient A	Low	Low	Low
Patient B	Low	High	Mid
Patient C	High	Low	Mid
Patient D	High	High	High

It is important to understand that there are several different patterns of use that can result inthe same score. It is always necessary to look at the actual PDMP data to determine what usepatterns exist that have resulted in the Narx Score presented.

Algorithm and Score Computation

The following steps are involved with calculating a Narx Score:

1. Determine the raw values for all time periods for all variables.
2. Convert all raw values to scaled values.
3. Average the scaled values for each risk factor for all time periods.
4. Determine the weighted average.
5. Add (concatenate) the number of active prescriptions.

Using a sample patient for a hypothetical scaled value to illustrate the calculation of a Narcotic Score:

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1. Determine the raw values for all time periods for all variables.

	60 days	6 mos.	1 year	2 years
Prescribers	6	9	15	15
Pharmacies	4	4	6	6
MME	1640	5408	7358	7364
LME	0	0	0	0
Overlaps	17	55	65	65

2. Convert all raw values to scaled values.

	60 days	6 mos.	1 year	2 years
Prescribers	85	76	84	64
Pharmacies	78	56	62	49
Morphine milligram eq	74	87	88	87
Lorazepam milligram eq	0	0	0	0
Overlaps	41	70	64	52

3. Average the scaled value for each risk factor for all time periods.

	60 days	6 mos.	1 year	2 years	Avg
Prescribers	85	76	84	64	**77**
Pharmacies	78	56	62	49	**61**
MME	74	87	88	87	**84**
LME	0	0	0	0	**0**
Overlaps	41	70	64	52	**57**

4. Calculate the weighted average.

	60 days	6 mos.	1 year	2 years	Avg	Wt.	
Prescribers	85	76	84	64	77	1	**77**
Pharmacies	78	56	62	49	61	1	**61**
MME	74	87	88	87	84	3	**252**
LME	0	0	0	0	0	1	**0**
Overlaps	41	70	64	52	56	2	**114**
Weighted Average (sum/8)							**63**

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5. Add (concatenate) the number of active prescriptions

	60 days	6 mos.	1 year	2 years	Avg	Wt.	
Prescribers	85	76	84	64	77	1	77
Pharmacies	78	56	62	49	61	1	61
MME	74	87	88	87	84	3	252
LME	0	0	0	0	0	1	0
Overlaps	41	70	64	52	56	2	114
Weighted Average (sum/8)							63
Number of Active Narcotic Prescriptions							2
Narcotic Score							**632**

Clinical Application

In-Workflow Use

Narx Scores are intended to be automatically delivered into the clinical workflow as discrete data and be easily viewable within a patient's record. Many systems choose to place the scoresin the patient header or alongside the patient's vital signs.

Narx Scores are best viewed at the beginning of a patient encounter, and as such, they shouldbe obtained at or near the time a patient is registered.

General Considerations

- The primary purpose of providing Narx Scores is to raise provider awareness of theassociated PDMP data available for review.
- Concerning Narx Scores are intended to trigger a *discussion,* **not a decision**. If a Narx Score raises concern, the recommended course of action is to evaluate the PDMP data, review any additional pertinent data, and discuss any concerns with the patient.
- Narx Scores are not intended to work as sole determinants of a patient's risk. Narx Scores are intended to support clinical decisions, not displace them. In no event should NarxCare be used to replace a provider's professional and medical judgment.
- Just as there is no single blood pressure that can be considered *normal* for all people, there is no Narx Score that is *normal*. A Narx Score must be applied to the clinical scenario before evaluating appropriateness. For example, a blood pressure of 120/80 can simultaneously be:

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  - Inappropriate for a 2-month-old infant
  - Appropriate for a 20-year-old woman
  - Inappropriate for an elderly patient with an average daily blood pressure of 200/100
- Narx Scores are distributed within the PDMP population as follows:
  - 75% of patients score below 200
  - 5% of patients score above 500
  - 1% of patients score above 650

Example Use Cases

Narx Scores can be used to great effect in certain clinical scenarios. Again, the recommendedcourse of action is to seek additional information and discuss concerns with the patient.

- **Case A** – A 17-year-old male basketball player with other significant history presents with asevere ankle sprain. His Narx Scores are:

Narcotic	Sedative	Stimulant
000	000	000

  Important consideration: If considered for an opioid due to the severity of injury, this maybe the patient's first exposure to the effects of an opioid. Recommend thorough review of the risks and benefits with the patient and consideration of an informed consent process.

- **Case B** – an 81-year-old female presents with decreased level of consciousness following afall where she suffered a closed head injury. Her Narx Scores are:

Narcotic	Sedative	Stimulant
341	501	000

  Important Consideration: Many elderly patients are on chronic opioids and benzodiazepines. The use of opioids and benzodiazepines for this patient may have contributed to her fall. The patient may be taking enough medication to develop anxiety seizures due to benzodiazepine withdrawal, complicating the medical picture.

- **Case C** – A 36-year-old male patient with mild chronic back pain frequently treated with opioids presents for a medication refill. On review of the PDMP record, the patient has beento 17 different prescribers in the last year. His Narx Scores are:

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Narcotic	Sedative	Stimulant
671	240	000

Important Consideration: Many patients obtain medications through multiple different providers. This can be due to the patient being seen in a clinic that is staffed by different providers, or it can be due to *access to care* issues requiring visits to urgent care centers or emergency departments.

Score-Based Guidance

Score/Range	Notes	Steps to Consider
000	This may be the first prescriptionof this type for the patient.	Discuss risks/benefits of using acontrolled substance. Consider informed consent.
010–200	Approximately 75% of scores fallin this range. Occasionally, patients in this score range have a remote history of high usage (> 1 yearago).	Review use patterns for unsafeconditions. Discuss any concerns with patient.See guidance below. If previously high usage exists withrecent abstinence, consider risk/benefits of new prescriptions.
201–650	Approximately 24% of scores fallin this range.	Review use patterns for unsafeconditions. Discuss any concerns with patient. See guidance below.

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> 650	Approximately 1% of scores fall inthis range. Some patient records may have ascore in this range and *still be within prescriber expectations.* Many patient records include some level of multiple providerepisodes, overlapping prescriptions, or elevated milligram equivalency.	Review use patterns for unsafeconditions. If multiple providers involved in unsafe prescribing, discuss concern with patient and consider contactingother providers directly. If multiple pharmacies involved in unsafe prescribing, discuss concern with patient and consider pharmacylock-in program. If overlapping medications of same ordifferent type, discuss concern with patient and consider taper to lower dose and/or discontinuation of potentiating medications. If patient has evidence of a substanceuse disorder, consider inpatient admit or referral for outpatient evaluation and treatment.

Note: *Narx Scores are not intended to work as sole determinants of a patient's risk. Narx Scores are intended to support clinical decisions, not displace them. Under no circumstance should NarxCare be used to replace a provider's professional and medical judgment.*

Overdose Risk Score

The NarxCare application delivers several elements of discrete data and a visually enhanced, interactive PDMP report. Contained on the report, and delivered as discrete data, is an Overdose Risk Score (ORS). This score numerically represents the risk of unintentional overdosedeath.

The ORS has the following characteristics:

1. The score is three digits and ranges from 000–999.
2. Risk approximately doubles for every 100-point increase in the score.
3. Using patients who score 0–199 as a reference group, the odds ratio associated withsuccessive 100-point bins is as follows:

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ORS	Odds Ratio of Unintentional Overdose Death
000–199	1
200–299	10
300–399	12
400–499	25
500–599	44
600–699	85
700–799	141
800–899	194
900–999	329

ORS Algorithm

The ORS algorithm was derived using machine learning and other predictive techniques appliedto a large case series of over 5,000 unintentional overdose deaths. For the first version of the score, more than 70 PDMP variables were evaluated with 12 chosen for the final model.

Subsequent revisions of the model have included evaluation of thousands of variables. A specific characterization of the current variables and coefficients is beyond the scope of this document. In general, the variables that have shown tobe predictive of unintentional overdose death include:

- The number of pharmacies visited for controlled substance dispensation per unit time
- Maximum morphine milligram equivalency (MME) in the last year
- The number of prescribers of controlled substances in the last two years
- Various slopes of opioid and sedative use
- Various slopes of prescriber usage

This section will be updated if new types of variables are incorporated and/or new sets ofdata are included.

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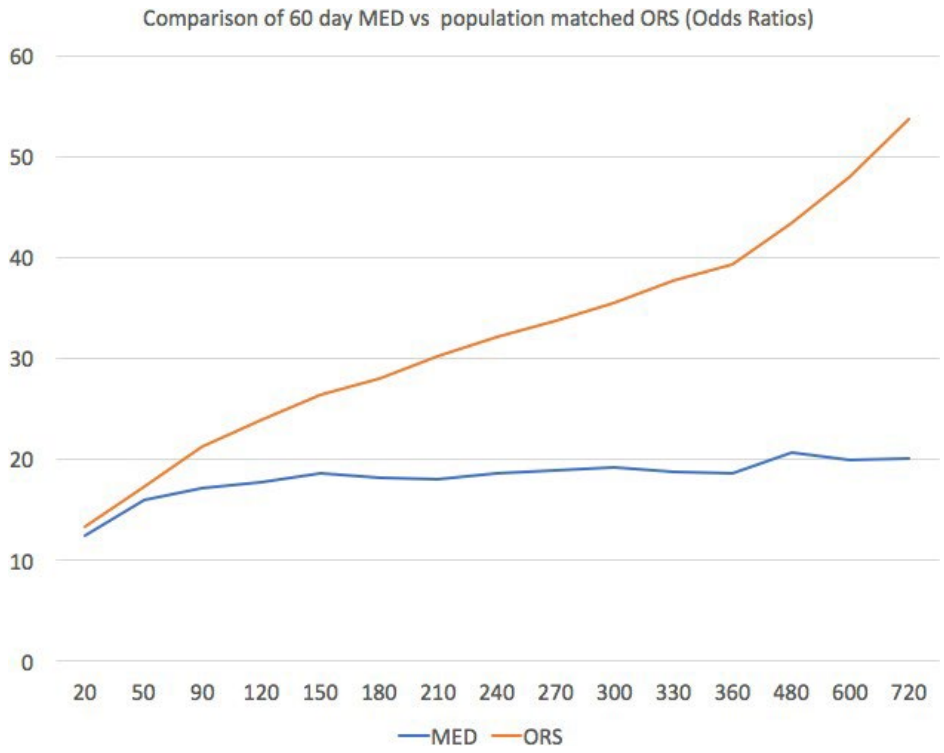
Clinical Application

The ORS is intended to provide a multi-factor estimate of overdose death risk. The risk assessment does not incorporate any data other than PDMP usage. This aligns the clinical application of the score with other sources of overdose risk assessment based on PDMP data such as number of pharmacies visited in the last 90 days or daily morphine equivalent dose(MED). The ORS takes multiple risk factors for unintentional overdose death into consideration and is more predictive than any one component.



The absolute risk of death from unintentional overdose is very low in the population of patients found in a PDMP. Even though the annual unintentional overdose death rate is unacceptably high, measured in the thousands for many states, the number of people using controlled substances in those same states are in the multiple millions. Patients on elevated doses of medication are also prevalent and have a low overall incidence of unintentional overdose death.For example, in evaluating average daily MED over a period of 60 days in one state, the following death rates were found:

60-day MED avg	Decedents	Living	Death Rate
90 MED	1,008	162,231	0.6%
150 MED	722	94,681	0.8%
480 MED	144	13,693	1.0%

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The results of this analysis equate the CDC-recommended maximum 90 MED for chronic opioiduse to an expected death rate of just 0.6%. It isn't until you get to an average MED of 480 that the death rate reaches 1%, and at that level, there are over 13,000 patients in the PDMPdatabase.

Score-Based Guidance

The ORS can be applied to clinical practice in a manner analogous to daily MED. The CDC opioid prescribing guidelines recommend naloxone be considered at 50 MED and that most patients should be treated at a dose of 90 MED or less. Using an equivalent population methodology, thefollowing ORS ranges can be associated with CDC MED-based guidance.

Score	Approximate CDC MEDEquivalent	Steps to Consider
< 010–440	< 50 MED	Consider other sources of risk beyondPDMP data. See below
450–650	50 MED (or more)	Consider naloxone prescription.See below.
> 650	90 MED (or more)	Consider naloxone prescription. Review use patterns for unsafe conditions. If multiple providers involved in unsafe prescribing, discuss concern with patient and consider contacting other providers directly. If multiple pharmacies involved in unsafe prescribing, discuss concern with patient and consider pharmacy lock-in program. If overlapping medications of same or different type, discuss concern with patient and consider taper to lower dose and/or discontinuation of potentiating medications. If patient has evidence of a substance use disorder, consider inpatient admit or referral for outpatient evaluation and treatment.

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Additional Risk Indicators

The NarxCare application delivers several elements of discrete data and a visually enhanced, interactive PDMP report. Contained on the report, and delivered as discrete data, are a set of Additional Risk Indicators. These indicators may be determined by the state PDMP and are feltto have stand-alone value.

This section is intended to aggregate important information from multiple sources of data.

There are currently three PDMP based indicators:

- More than 5 controlled substance providers in any 365-day period
- More than 4 pharmacies that dispense controlled substances in any 90-day period
- More than 40 MED average and more than 100 MME total at any time in the previous 2years

These indicators are based on the following literature:

- **Provider red flag:** Hall AJ, Logan JE, Toblin RL, et al. Patterns of Abuse Among UnintentionalPharmaceutical Overdose Fatalities. *JAMA.* 2008;300(22): 2613–2620. doi:10.1001/jama.2008.802.
- **Pharmacy red flag:** Yang Z, Wilsey B, Bohm M, et al. Defining Risk of Prescription OpioidOverdose: Pharmacy Shopping and Overlapping Prescriptions Among Long-Term OpioidUsers in Medicaid. *The Journal of Pain.* 16(5): 445–453.
- **40 MED red flag:** Paulozzi L, Kilbourne E, Shah N, et. al. A History of Being Prescribed Controlled Substances and Risk of Drug Overdose Death. *Pain Medicine.* 2012;13(1): 87–95.doi: 10.1111/j.1526-4637.2011.01260.x.

Clinical Application

PDMP-based indicators typically corroborate any concerns raised by the Narx Scores and ORS.

When available, additional risk indictors sourced from non-PDMP data sources may represent other dimensions of risk such as past heroin use, substance use disorder, previous overdose, etc.

In all cases, if a provider determines that inappropriate risk exists for a patient, they should seekadditional information, discuss the risk concern with the patient, and choose appropriate medical care options that are in the best interest of the patient.

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Indicator-Based Guidance

Indicator	Steps to Consider
More than 5 providers in any year (365 days)	Review use patterns for unsafe conditions. If multiple providers involved in unsafe prescribing, discuss concern with patient andconsider contacting other providers directly.
More than 4 pharmacies in any 90-day period	Review use patterns for unsafe conditions. If multiple pharmacies involved in unsafe prescribing, discuss concern with patient andconsider pharmacy lock-in program.
More than 40 MED per day average and morethan 100 MME total	Review use patterns for unsafe conditions. Consider taper to lower dose and/or discontinuation of potentiating medications.
If all 3 indicators are present	Review use patterns for unsafe conditions. If multiple providers are involved in unsafe prescribing, discuss concern with patient and consider contacting other providers directly. If multiple pharmacies or dispensaries are involved in unsafe prescribing, discuss concern with patient and consider a pharmacy lock-in program. If overlapping medications of same or different type, discuss concern with patient and consider taper to lower dose and/or discontinuation of potentiating medications. If the patient has evidence of a substance use disorder, consider inpatient admit or referral for outpatient evaluation and treatment.

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