Overview

The Remote Veterans Apnea Management Platform (REVAMP) App consists of a Patient Platform and a Clinician Platform. With the REVAMP App for Clinicians, as a sleep clinician, you will be able to set up patient accounts, schedule patients for sleep testing and enter their results, review patient Positive Airway Pressure (PAP) machine data, assign questionnaires, schedule appointments, write Treatment notes and correspond with patients. Additionally, if you are an authorized user, you will also have the ability to create and manage educational material on sleep apnea and automated messages for patients.
General Info

Prerequisites
In order to use the REVAMP App for Clinicians, you must be a Department of Veterans Affairs (VA) provider and be logged into the Single Sign-On Internal (SSOi) service. To log on with SSOi, you must select your credential service provider (CSP) and authenticate to that service. Available methods are PIV authentication, VA Active Directory (username / password) authentication and Integrated Windows Authentication. More information can be found on the AccessVA website (access.va.gov/accessva/about#updatecred).

Logging In
To log into the REVAMP App for Clinicians, access the application from the VA App Store (mobile.va.gov/app/revamp-clinicians). This will bring you to the Single Sign-On Internal (SSOi) Login Screen. Click either Sign In with VA PIV Card or if you would like to log in with Windows Authentication or VA Network ID, click View Other Sign-In Options (a list of PIV Badge Offices can be found at va.gov/pivproject/piv_badge_offices.asp). Follow the normal process for logging in with the chosen set of credentials.

After authenticating to SSOi with one of the three options described above, you will be taken to the REVAMP Provider Platform Landing Page.

To finish logging into the application, you should click Continue to REVAMP on the left side of the screen or in the top right corner. This will take you to the Home screen of the application.
Getting To Know The Screen

When you log into the REVAMP App for Clinicians, you will see your name in the upper right corner of the Home screen, with the number of new messages you have beside it (if there are no new messages, no envelope icon will be shown). There are nine main tabs at the top of the screen that will always be accessible and help you navigate the app: Home, File, Management, Administration, Messages, FAQ, Help, About and Log Off.

The menu items on the drop-down lists will change depending if you are looking at a specific patient’s information or are performing non-patient specific tasks within the app. When going to the patient specific screen, a pop-up confirming you would like to go to the summary screen will appear. Tap OK to continue. When leaving a patient specific screen to access the general portions of the app, you will also be prompted to confirm you would like to proceed. Tap OK to continue. Be aware that if you leave the specific patient Treatment Tree, you must access that patient’s records again by searching or through the Case Management screen.

Learning About the App

To learn more about the sleep clinic and app and access a user manual, tap Help. A drop-down menu will appear, and tap either:

- **Contact Info** for information on contacting the VA Mobile Solutions Service Desk and what to do if you feel your information may have been compromised.

- **User Manual** to access a built-in user manual for the app.
Logging Off

You will be automatically logged off after 15 minutes of inactivity. A warning is shown when you have five minutes remaining. A Timeout Counter is shown in the upper right corner of your screen next to your name. The Timeout Counter shows the number of minutes remaining until you will be logged off automatically. The Timeout Counter starts at 15 minutes and periodically resets as long as the app is in use. To log off manually, tap Log Off in the upper right corner of your screen.

Patient Management

Case Management

From anywhere in the REVAMP App, tap Management, and a drop-down menu will appear. Tap Case Management, and you will be taken to the Case Management screen.

The Case Management screen will default to showing you up to 10 patients per page. To change the number of patients shown on a page, tap the drop-down menu with a 10 on the right side of your screen, and tap the number of patients you want to see: 25, 50, or All. You can select Show All Data (No Filter) from the Filter dropdown and tap Select to see a list of all active patients registered in your location. Tap the radio button next to App Patients, On PAP Treatment or Not On PAP Treatment to view only those on or off PAP treatment. Tap the checkbox next to Show Inactive to include inactive patients. A list of all patients registered at your location matching your filters will appear. Next to your patient's names, you will see a table of patient data, which may include LI+4SSN, Intake Completed, Diagnostic Sleep Study, Initial Evaluations, satisfaction questionnaires, and other data depending on the filter selected.

You may customize the columns you are viewing on the Case Management screen by tapping the three-line icon next to the number of patients you are viewing on the right side of the screen. Tap the box to place a check-mark next to the field you want to view.

You can filter case management results by: data columns in ascending or descending views, whether the patient is on current PAP treatment, active/inactive patients or searching for a patient. You can also create a custom filter to sort data by navigating to the Filter bar and tapping Create Filter from the drop-down menu. Tap Select, and type in a filter name. To change filter settings,
tap **Edit** to be taken to the new filter customization screen. To select a column to be shown, check the checkbox to the left of the corresponding entry. To filter by a column, use the radio buttons, dropdowns, and numerical date fields to the right of the entry. To use the new filter, tap **Apply**. Tap **Save** or **Save As** to save the new filter. Tap **Delete** to erase a saved filter or **Clear All** to dismiss all current filters. To export data to an excel compatible file, tap **Export** next to the filter menu. To view the data, tap **Open**.

### Looking Up a Patient

From the Home screen tap **File**, and a drop-down menu will appear. Tap **Search Clinic**, and a pop-up Search Clinic box will appear. Type in the patient’s last name or first initial of last name plus last four SSN digits in the Search Criteria field. A table with patients will populate below as the search criteria is entered. To include inactive patients in the results, tap the check-box next to **Show Inactive**. Tap the button next to the row of the patient you would like to select. You will be taken to the Patient Record, with the Treatment Tree for navigation on the left side of the screen.

### Registering a Patient

The patient you are registering must be in VA’s Master Veteran Index (MVI). From the Home screen tap **File**, and a drop-down menu will appear. Tap **Add New Patient**, and a pop-up Add New Patient box will appear. Type in the patient’s last name, first name and full SSN. Tap **Search** and tap the button next to the row of the patient you would like to select, and the Patient Demographics screen will appear. Verify that the Veteran’s pre-populated information on the screen from MVI is correct, and fill in any missing fields. **NOTE**: Be sure to specify whether the patient is on PAP treatment at the time of registration as this will affect the questionnaires assigned to the patient and cannot be undone once the patient begins the questionnaires. To save updates, either tap the floppy disk icon, or tap **File** and then **Save**.

### Accessing Patient Records

From anywhere in the REVAMP App there are three ways to access the Patient Record:

1. From the Homescreen, enter the patient’s last name or first initial of last name plus last four SSN digits in the Search Clinic field, and the list of patients below will narrow down to patients who match the criteria being entered. Tap the button next to the row of the patient you would like to select, and you will be taken to the Patient Record.

2. From anywhere in the app, tap **File**, and tap **Search Clinic**. A pop-up Search Clinic box will appear. Type in the patient’s last name or last initial plus last four SSN digits in the Search Criteria field. A table with patients will populate below as the search criteria is entered. Tap the button next to the row of the patient you would like to select, and you will be taken to the Patient Record.
3. Case Management – From anywhere in the app, tap **Management**, and a drop-down menu will appear. Tap **Case Management**, and you will be taken to the Case Management screen where you can select Show All Data (No Filter) from the Filter drop-down list and tap **Select** to see a list of all patients registered at your location with outcomes and treatment pathway event data. Show All Data (No Filter) may already be your default view in Case Management. Tap the name of the patient you want to view. The Patient Record will appear.

**Registering a Patient’s PAP Machine**

Currently, REVAMP supports the registration of Philips and ResMed PAP machines, with plans to include other manufacturers in the future. To register a patient’s PAP machine first, navigate to the Patient Record of the Veteran you would like to view (see the Access the Patient Record section for instructions on how to access the Patient Record). From anywhere in the Patient Record, tap **Demographics** on the Treatment Tree on the left. The Patient Demographics will appear on the right side of the screen. Tap the **PAP Machine** tab, and type in the Serial Number of the PAP machine. Tap the radio button next to the Type of unit: APAP (Automatic Positive Airway Pressure), BPAP (Bilevel Positive Airway Pressure), CPAP (Continuous Positive Airway Pressure) or ASV (Adaptive Servo Ventilation), and fill out the field(s) in the PAP Pressure Range section. Tap the **Manufacturer** bar, and select Philips or ResMed. To save, either tap the floppy disk icon, or tap **File** and then **Save**. (**NOTE:** If the patient’s PAP machine is registered in REVAMP and the PAP data is not shown on the PAP Data tab of the Patient Record after the patient has been using the machine for a few days, there may be an error in the device registration. If the patient is using a ResMed device, make sure the date of birth in REVAMP matches the date of birth in AirView.)

**Scheduling a Patient’s Sleep Studies**

Super Admins, Site Admins and users who have permission will be able to schedule sleep studies. To start this process, begin by looking up the patient by name and SSN, or select the patient from the Case Management screen. From the Patient Record, tap **Summary** on the Treatment Tree, and tap the Sleep Studies tab. All sleep studies recorded for the patient in REVAMP will be shown on the Sleep Studies tab, and tap **Add Study**. A pop-up Add Sleep Study box will appear, and type the Scheduled Date in the form MM/DD/YYYY. Tap the **Type** bar, and select the type of study (Home, In-lab Diagnostic, In-lab Titration, In-lab Split). Tap **Add** to add the study to the patient record or Close to discard it. (**NOTE:** If there is a separate sleep study appointment needed for the home sleep test, you will need to enter the appointment into the VistA scheduling package for workload capture and monitoring of access to care).

**Updating A Patient’s Sleep Studies**

Super Admins, Site Admins and users who have permission will be able to update sleep studies. To start this process, begin by looking up the patient by name and SSN, or select the patient from the Case Management screen. From the Patient Record, tap **Summary** on the Treatment Tree, and tap the Sleep Studies tab. All sleep studies recorded for the patient in REVAMP will be shown on the Sleep Studies tab. From the Sleep Studies tab you may make edits to the sleep study information, delete a sleep study or add a comment.
Viewing and Scheduling Patient Treatment Pathway Events

For Super Admins, Site Admins and Provider users to schedule visits for patients and assign clinical questionnaires, use the Events tab on the Patient Summary screen. To start this process, begin by looking up the patient by last name or LI + L4SSN (see the Looking Up a Patient section for instructions on how to look up a patient), or select the patient from the Case Management screen (see the Case Management Screen section for instructions on how to access the Case Management screen). From the Patient Record, tap Summary on the Treatment Tree. Tap Events. The items in the Event column represent steps in the REVAMP treatment pathway, from Account Setup (when the patient is registered to REVAMP) to PAP Data (when the patient’s PAP device begins sending data to REVAMP) to clinical follow-up visits. For each event you will see four columns: Scheduled Date, Performed Date, Status and Comments. Clinicians may edit these fields and save to track a patient’s progress and upcoming events. Questionnaires become available in the Patient Platform 3 days before the saved Scheduled Date, and the Performed Date is automatically filled in after the patient completes them.

NOTE: When the scheduled date for an event has passed and there is no performed date, the event is considered overdue. Overdue events are highlighted pink and have a red caution sign in the Event column.

To control the specific questionnaires assigned to the patient for Follow-up Questionnaires events, tap the + icon next to the follow up questionnaire you want to edit, and tap the box next to the questionnaire to include or remove it. To save, either tap the floppy disk icon, or tap File and then Save.

Creating And Editing Treatment Notes

Super Admins, Site Admins and users who have permission will be able to create and edit treatment notes as well as lock and unlock treatment notes to make them editable again. To create and edit a treatment note, look up the patient. From the Patient Record tap the calendar icon, or tap File and then New Note. A pop-up New Note box will appear, and tap the blank bar. From the drop-down menu, tap the type of note, and the drop-down menu will show the status and date of the Questionnaire Group. Tap Yes to continue or No to cancel. The new note will appear in the Treatment Tree, and a new blank form will appear. Type the date in the MM/DD/YYYY format. You may type in the applicable tab (Subjective, Objective, Assessment / Plan), or tap the Note Template bar, and select the template you want to use. Tap Load Template. Tap the Assessment/Plan tab, which contains a text box where the user can enter an assessment and plan for the patient, as well as an area where the user can add an ICD-10 diagnoses to the patient. To add a diagnosis, tap Add Diagnosis, and tap the diagnosis category and then a diagnosis to add it to the patient. To view, add or edit a note for a diagnosis, tap the paper icon in the Comments column. A pop-up Comment box will appear where you can type a comment. Tap OK to save or Cancel to exit without saving. To lock and unlock treatment notes, from the Patient Record, double tap Assessments on the Treatment Tree. Tap the event to show the treatment note item for that visit. Tap on the note, and the note will appear on the right side of the screen. Tap Lock Note to make it read only, or tap Unlock Note to make edits.
To copy all tabs of the note at once so that the text may be pasted to CPRS, tap **Copy All Tabs** to the right of the Load Template button. A pop-up Copy All Note Text box will appear with the text from all tabs of the note.

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**Creating a Patient PAP Data Report**

Users with the ability to create and edit treatment notes can create a PAP data report for patients who are on treatment. First, look up the patient by last name or LI + L4SSN (see the Looking Up a Patient section for instructions on how to look up a patient), or select the patient from the Case Management screen (see the Case Management section for instructions on how to access the Case Management screen). From the Patient Record, tap **Assessments** on the Treatment Tree. Tap the event name of a Follow Up to show the treatment note item for that visit. Tap on the note, and the note will appear on the right side of the screen. Tap the Note Template bar, and select Follow-Up. Tap **Load Template**, and tap the Objective tab. The Objective tab will be populated with PAP data from the patient's treatment. To modify the range of dates included in the data, you may change the From and To dates and tap **Refresh**.

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**PAP Machine Data**

**Accessing Pap Machine Data**

If your patient's PAP machine is registered to the REVAMP App, you can view how often the machine has been in use and the patterns of use. You can also view the patient's Apnea-Hypopnea Index (AHI), apnea event types and mask leak data. To view your patient's PAP machine data, navigate to the Patient Record of the Veteran you would like to view (see the Access the Patient Record section for instructions on how to access the Patient Record). Tap **Summary**, and tap the PAP Data tab. Tap the Raw data tab on the graph to view just the data, and tap the Graphs tab to view the data as a graph.

**Viewing And Understanding Pap Machine Data**

In the Single Graph view, to view a specific graph first, navigate to the Patient Record of the Veteran you would like to view (see the Access the Patient Record section for instructions on how to access the Patient Record). Tap the PAP data tab. Tap the radio button next to Single Graphic (if not already selected). Tap one of the following data parameters under PAP Machine Data:
- Treatment Adherence – Shows the total number of hours the patient used the PAP device each night. Bars are colored red if they are below the 4-hour minimum and green if they are at or above the minimum. You may hover over a bar in the graph to see a tooltip with the date and value of the bar.

- PAP Patterns of Use – Shows a 24-hour display of the actual times the patient used the PAP device each day or night. The bars are colored red if the total number of hours for the date was below the 4-hour minimum and green if it was above the 4-hour minimum. You may hover over a bar in the graph to see a tooltip with the date and value of the bar.

- Apnea-Hypopnea Index – Shows the patient’s average AHI each day or night he or she used the device. Bars are colored green if they are below the 10-events-per-hour threshold and red if they are at or above it. You may hover over a bar in the graph to see a tooltip with the date and value of the bar.

- Apnea Event Types – Shows stacked bars that add up to the patient’s total AHI for each day or night that he or she used the device. The segments of the bars represent the different apnea types: Unknown Apnea Index (grey), Clear Apnea Index (Light Blue), Hypopnea Index (Purple) and Obstructive Apnea Index (Dark Blue). You may click on any of these types in the graph legend to show or hide the segments of that type in the graph.

- Mask Leak – Shows the patient’s average mask leak in liters per minute (L/min) each day or night that he or she used the device. A threshold line is shown at 24 L/min.

To view the raw data of the selected parameter, tap the Raw Data tab in the top left corner of the graph. Tap the Graphs tab to return to the graph.
Viewing Questionnaire Data

To view a patient's completed questionnaires, open the Patient Record of the Veteran you would like to view. On the Treatment Tree, tap **Assessments** if not already expanded. Under Assessments, tap the Questionnaire group which you would like to view. Tap **Questionnaires**. The list of completed questionnaires in the group will be shown. If the patient completed all questionnaires in the group, the date that he or she completed the last questionnaire in the group will be shown next to the Questionnaires folder. You will then be able to review and export completed questionnaires. Tap **Export Data** to export a questionnaire and download a CSV file of the report.

Administration

Super and Site Admins will be able to manage other user’s permissions and add new users. Site Admins will have access to provider users at their own clinic, and Super Admins will have access to provider users from all clinics.

Adding a New User as a Super Administrator

From anywhere in the REVAMP App, tap **Administration**. A drop-down menu will appear. Tap **User Administration**, and you will be taken to the User Administration screen. Tap **Add User**, and a blank Details tab will appear on the right side of the screen. Type in the new user’s first name, last name and VA email. Tap the blank Clinic bar, and a list of clinics will appear. Tap the name of the clinic to which the user is assigned. To add the new user's permissions, tap **Rights**, and tap the radio button next to the User Type you would like to assign to the new user (Provider, Site Administrator, Super Administrator). Under User Rights, tap any of the checkboxes next to the rights you would like the new user to have (if not already checked). To save, either tap the floppy disk icon, or tap **File** and then **Save**. If you leave the add new user form in progress, a pop-up Unsaved Changes box will appear, asking if you would like to leave the screen. Tap **Leave** to continue without saving, or tap **Stay** to return to the Add New User form.

Adding a New User as a Site Administrator

From anywhere in the REVAMP App, tap **Administration**. A drop-down menu will appear. Tap **User Administration**, and you will be taken to the User Administration screen. Tap **Add User**, and a blank Details tab will appear on the right side of the screen. Type in the new user’s first name, last name and VA email. To add the new user’s permissions, tap the Rights tab, and tap the radio button next to the User Type you would like to assign to the new user (Provider, Site Administrator). Under User Rights, tap any of the checkboxes next to the rights you would like the new user to have (if not already checked). To save, either tap the floppy disk icon, or tap **File** and then **Save**. If you leave the add new user form in progress, a pop-up Unsaved Changes box will appear, asking if you would like to leave the screen. Tap **Leave** to continue without saving, or tap **Stay** to return to the Add New User form.

Managing User Permissions

From anywhere in the REVAMP App, tap **Administration**. A drop-down menu will appear. Tap **User Administration**, and you will be taken to the User Administration screen. Tap the Search User bar, and begin typing the first or last name of the user you are searching for. The list of users will update to match your search. Tap the name of the user whose permissions you would like to edit. The right side of screen will default to the user's Details tab. Tap the Rights tab, and tap the radio button next to the User Type you would like to assign to the user (Provider, Site Administrator, Super Administrator).
Messages

Reading Your Messages

There are three ways to access your messages.

1. If you have unread messages in your inbox, tap the envelope icon to the right of your name. The icon will show the number of unread messages you have.

2. From any screen, tap Messages in the menu bar.

A pop-up Secure Message box will appear displaying your Inbox. On the Inbox tab (Sent tab for messages you have sent to patients, Draft tab for draft messages and Deleted tab for messages you have deleted), you will see a list of your received messages with their titles, senders and the dates and times they were sent. Any unread messages will have blue text and a closed envelope icon to the left. Tap the message you would like to read, and the full message will be displayed on the right side of the Secure Messaging screen.

Sending a Message

To send a message, access Secure Messaging by one of the three ways detailed in the Reading Your Messages section. Tap Compose, and a pop-up Compose Message box will appear. Type in the subject and message you would like to send. Tap Select Patient(s) or Select Provider(s), and a Select Patient or Select Provider pop-up will appear. Select the checkbox(es) next to the name(s) of the intended recipient(s). Tap Select, and you will be taken back to the Compose Message pop-up with the chosen patient(s) or provider(s) listed on the To line. If you wish to remove a patient or provider, tap the X next to their name. Tap Send to send the message. To discard the message or save as a draft, tap Close. A pop-up Alert box will appear, asking you if you want to save the message as a draft. Tap Yes to save the message as a draft, tap No to discard the message or tap Cancel to return to the message.

To send a message you have already drafted, tap the Drafts tab in Secure Messaging. Select the draft message from the list of your saved draft. The draft message will appear on the right side of the screen. Edit the message as you would normally, and tap Send to send the message. Tap Save to save your edits without sending, or tap Delete to discard the draft message.

Replying To A Message

To reply to a message, access the Secure Messaging pop-up, and tap the message for which you would like to send a reply. Tap Reply to reply only to the sender, or tap Reply to All to reply to the sender and all other recipients. A pop-up Compose Message box will appear, and type the message you would like to send. Tap Send to send it, or tap Close to exit without sending the message. To edit and send a saved drafted message, select the Drafts tab in the Secure Messaging screen. To send your message, tap on the drafted message you would like to edit, and tap Send.

Deleting A Message

To delete to a message, access the Secure Messaging, and tap the message you would like to delete. Tap Delete to delete the message. To view messages you have deleted, tap Deleted while in the Secure Messaging screen.
Management

Create Email Notifications

Super Admins can create and manage emails and secure messages that are sent to patients automatically when certain events occur using the Notification Messages Management screen. From anywhere in the REVAMP App, tap Management, and a drop-down menu will appear. Tap Notifications. Tap Email, and the Notification Message Management screen will appear. Tap Select Message drop-down, and tap either:

- One of the pre-existing messages. Tap Select to automatically fill in the Message Title, Email content, Internal (Secure Messaging) content, and the Email/Event Association.
- Message. Tap Select, and type in a Message Title, which will be the subject line of the email. The message may have an external and/or an Internal (Secure Message) section(s). Tap the radio button next to the event under Email/Event Association on the right side of the screen you want to associate with the email. NOTE: When creating the text for the reminder by copying from a text editor such as Word, not all formatting may be preserved. Please review the message after copying and reapply formatting as necessary using the controls above the text box.

Tap the checkbox next to Enabled to make the message active, which means it will be sent to patients, or deselect the checkbox to make the message inactive, which means it will not be sent to patients. To save, either tap the floppy disk icon, or tap File and then Save.

Creating and Editing Education Pages

As a Super Admin, from anywhere in the REVAMP App, tap Management, and a drop-down menu will appear. Mouse over Content Management, and tap Patient Education Pages. You will go to the Create/Edit Patient Education Page screen, where you can:

- Create a New Page - To create a new page, if you are already not on the Create Page, tap the radio button next to Create Page. The Title and HTML editor text box will be blank, the Author drop-down will default to you and the drop-down Status bar will default to Un-Published. Tap the blank Title bar, and type in the title (which will be listed in the Select Page pop-up in the Provider Platform and the Education menu in the Patient Platform). To change the author, tap the Author bar, and a drop-down will appear. Tap the name of the Super Administrator you would like to list as the author. Enter text, images and/or video for the HTML page using the HTML editor text box.

- Edit a Page - To edit an already existing page, tap the radio button next to Edit Page. Tap Select Page, and a Select Page pop-up of the existing pages in the content management system with their Titles, Authors, and Statuses will appear. Filter by Author or Status by tapping the drop-down menu, selecting the author or status and tapping Filter. Tap the page you would like to view. Tap Select to begin editing the page as you would while creating it, or tap Close to exit without selecting a page.

To save, either tap the floppy disk icon, or tap File and then Save. When you wish to make the page available in the Education menu of the Patient Platform, select Publish as the status. Tap the floppy disk icon, or tap File and then Save.

NOTE: A status of Un-Published, even if saved, means the page will not be available in the Education menu.
Help and Additional Information

Additional training materials for the REVAMP App for Clinicians
A built-in user manual is available in the app. To access the built-in user manual, tap Help. The Help sub-menu will expand, and tap User Manual. More resources, such as a Quick Start Guide, Slideshow and FAQs, can be found at mobile.va.gov/appstore.

Help Desk Information
If you need assistance with the REVAMP App for Clinicians, dial 1-844-482-6624 to speak with a VA Mobile Solutions Service Desk Representative. The VA Mobile Solutions Service Desk is open Monday - Friday from 7 a.m. to 7 p.m. CST. For TTY assistance, dial 711.

Emergencies
If you feel that your information may have been compromised, contact your local VA facility to obtain the contact information from your Privacy Officer. To locate your local VA facility, visit VA’s Facility Locator: http://www.va.gov/directory/guide/home.asp?isflash=1. Note that you should never use this app in an emergency situation. If you encounter an emergency, call your local medical center or dial 911.