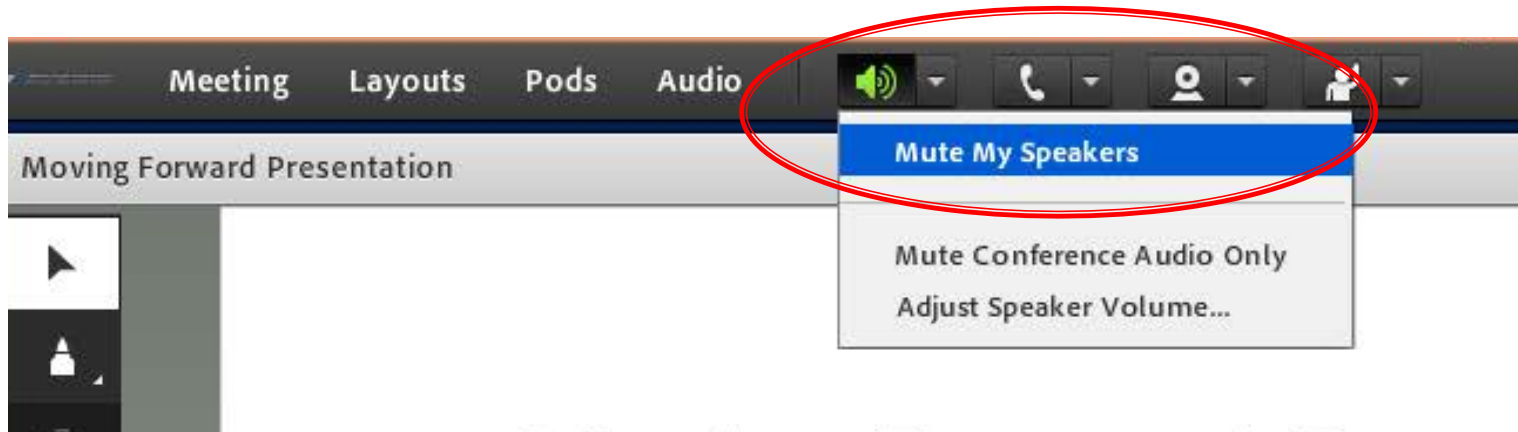


# Please remember to mute your speakers.



## VA Mobile Discussion Series

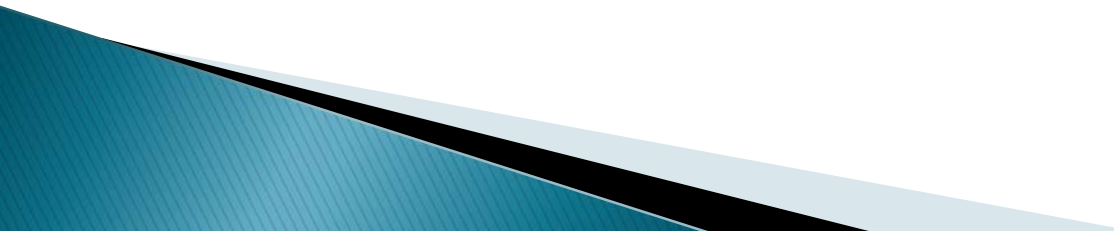
**For audio, please dial in using VANTS:  
1-800-767-1750 Passcode: 32523#**

Thank you for joining. We will begin shortly.

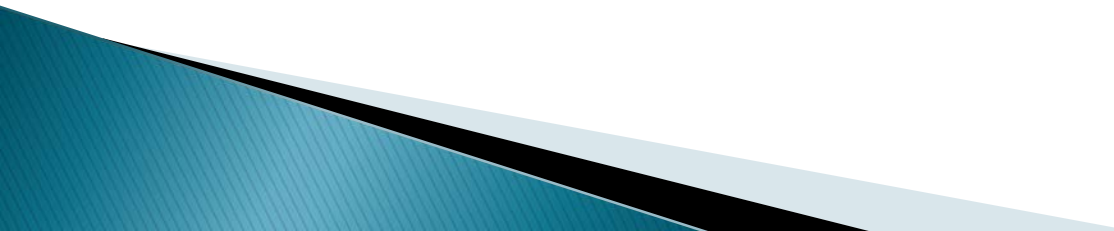


VA Mobile Discussion Series  
Remote Veterans Apnea Management Platform (REVAMP)  
January 27, 2017

# Overview

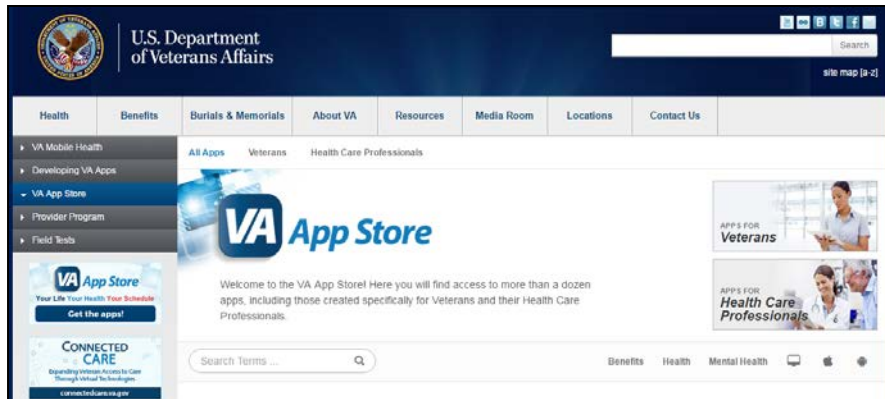
- ▶ REVAMP is the second phase of an employee innovation project to implement and disseminate a personalized, interactive web service for the clinical management of Veterans with Obstructive Sleep Apnea (OSA).
  - ▶ REVAMP has demonstrated the potential to lower costs, improve treatment compliance and improve the health care experience for patients with OSA, the third most common chronic condition in the Veteran population.
- 

# Need for REVAMP

- ▶ Sleep Care utilization is averaging 16 percent growth over the last 5 years – 3X greater growth than Primary Care
  - ▶ In May 2016 there were 21,522 open sleep consults
  - ▶ As of November 2016, this number has risen to 30,951
  - ▶ \$183 Million in positive airway pressure (PAP) equipment and supplies in FY16
  - ▶ Many Veterans lack access to sleep specialty care
- 

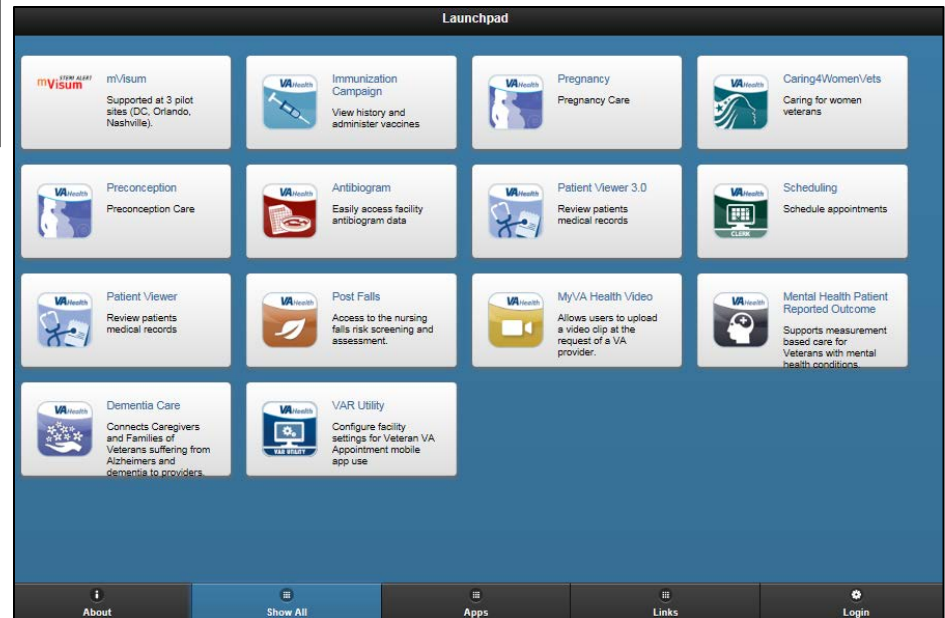
# Accessing REVAMP

REVAMP will be available to Providers and Veterans

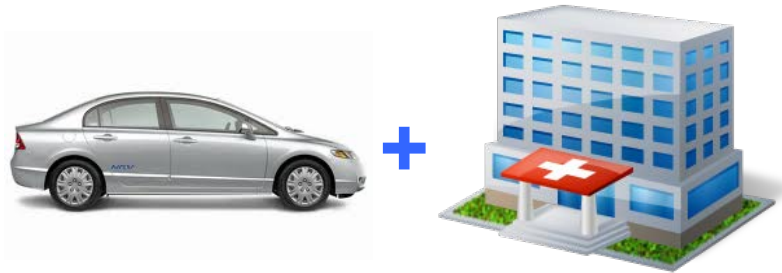


VA Mobile App Store

## Launchpad



# Current OSA Care Delivery



Inconvenient and Costly  
Inpatient Diagnostic



Paper-based  
Data Collection



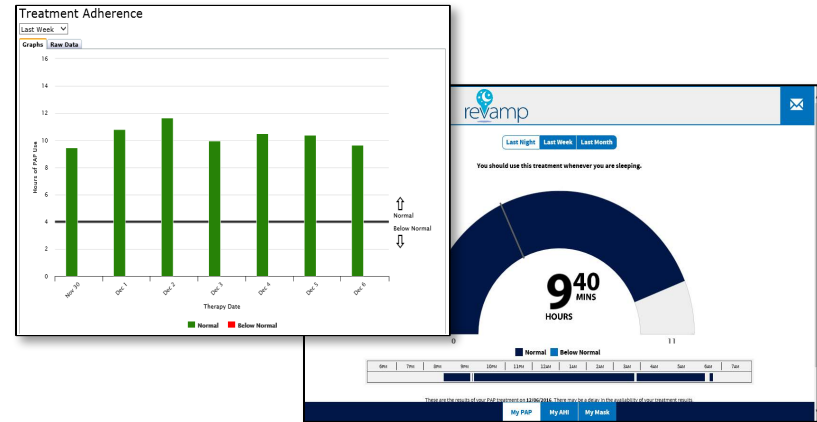
So.. how's it  
going with the  
CPAP?

Anecdotal Promotion of Compliance

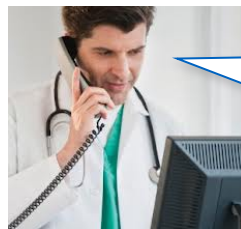
# Future OSA Care with REVAMP



**Convenient and Cost-Effective Home Diagnostics**



**Lots of Data for Patients and Providers:  
A Meaningful Use of Technology**



**I see you're  
doing great  
with the CPAP!**

**Transparent, Meaningful Engagement**

# Demonstration



# Provider – Looks Up Patient

The screenshot displays a web application interface with a 'Patient Lookup' modal form open. The background application has a top navigation bar with links: Home, File, Management, Administration, Messages, FAQ, and Help. On the left, there is a sidebar with a search icon, the 'revam' logo, and buttons for 'LOOKUP/REGISTER P...', 'CASE MANAGEMENT', and 'MESSAGE CENTER'. On the right, there are notification and 'Log Off' buttons. The 'Patient Lookup' modal is a white box with a close button (X) in the top right corner. It contains three input fields labeled '\* First Name', '\* Last Name', and '\* SSN', followed by a blue 'Search' button. A 'Close' button is located at the bottom right of the modal.

Home File Management Administration Messages FAQ Help

revam

LOOKUP/REGISTER P...

CASE MANAGEMENT

MESSAGE CENTER

1 Log Off

Patient Lookup

\* First Name

\* Last Name

\* SSN

Search

Close

# Provider – Registers Patient in REVAMP

Home File Management Administration Messages FAQ Help

SEARCH SAVE

SITE ADMIN - 12/2/2016 3:17 PM 15 1 Log Off

## Patient Demographics


**Patient**


\* Required field.

* First Name	Nine	* Social Security	XXX-XX	0009
Middle Initial		* SSN Confirmation	XXX-XX	0009
* Last Name	Extranine	* Date of Birth	(MM/DD/YYYY, enter digits only) 11/09/1964	
* Email		* Gender	Female	
Address1	34 Sutton Drive	Weight (lbs)		
Address2		Height	Feet	Inches
City	Boulogne			
State	PW - PALAU			
Zip Code	58412			
* Preferred Phone (including area code, enter digits only)				

# Patient – Intake Process

## My Profile Step





Home

Messages

Log Off

My Profile

5 minutes

### Verifying your Profile Information

**Welcome NINE EXTRANINE!**

Let's start by taking a few minutes to verify your account information.

You can complete the steps above all at once, or in separate visits. All your information is saved along the way.

Next >

# Patient – Intake Process

## My Profile Step continues

revamp

Home

Messages

Log Off

My Profile

5 minutes

Checking your Profile Information

★ Required field.

★ SOCIAL SECURITY

XXX-XX-0009

★ DATE OF BIRTH (MM/DD/YYYY)

11/09/1964

< Back

Next >

# Patient – Intake Process

## About REVAMP Step

The screenshot displays the REVAMP patient intake process interface. At the top, the 'revamp' logo is centered, featuring a blue location pin icon with a white star. To the right of the logo is a blue square button with a white envelope icon. Below the logo, a blue progress bar contains a green checkmark icon on the left and the text 'About REVAMP' followed by '5 minutes' on the right. On the left side of the interface, there is a vertical menu with three items: 'Home' (highlighted with a blue bar), 'Messages', and 'Log Off'. The main content area is titled 'Learn About Revamp' and contains the text: 'Please scroll down to video and click "play" in order to learn more about REVAMP. Once you have watched the video, you will be able to continue with account setup.' Below this text is a video player. The video frame shows a whiteboard with the text 'Hi, I'm Mike.' and a cartoon character of a man with a large nose, wearing a white t-shirt with 'US Veteran' written on it. The video player has a standard control bar at the bottom with a play button, a volume icon, a progress slider, and a timestamp of '-1:48'. Below the video player are two buttons: '< Back' and 'Next >'. The entire interface is set against a light gray background.

revamp

Home

Messages

Log Off

**About REVAMP**  
5 minutes

**Learn About Revamp**

Please scroll down to video and click "play" in order to learn more about REVAMP. Once you have watched the video, you will be able to continue with account setup.

Hi, I'm Mike.

US Veteran

< Back Next >

# Patient – Intake Process

## My Sleep Health Step

The screenshot shows a web interface for a patient intake process. At the top, there is a header bar with the 'revamp' logo (a blue location pin with a crescent moon and stars) and a blue button with a white envelope icon. Below the header, a progress bar consists of three chevron-shaped segments. The first two are blue with green checkmarks, and the third is white with a blue border and the text 'My Sleep Health' and '25 minutes'. On the left side, there is a sidebar with a blue 'Home' button and two grey buttons labeled 'Messages' and 'Log Off'. The main content area is titled 'My Sleep Health' and contains a paragraph of instructions, a note, and a list of eight questionnaires, each with an unchecked checkbox.

revamp

Home

Messages

Log Off

**My Sleep Health**  
25 minutes

**My Sleep Health**



Please take some time to respond to the following questionnaires as part of the Initial Evaluation process.

Note: After you have submitted a questionnaire, you will no longer be able to change your responses.

- ☐ Initial Information
- ☐ Sleep Apnea Symptoms
- ☐ Epworth Sleepiness Scale - ESS
- ☐ Pittsburgh Sleep Quality Index - PSQI
- ☐ Functional Outcomes of Sleep Questionnaire
- ☐ Insomnia Severity Index - ISI
- ☐ SF-12 Health Survey
- ☐ Center for Epidemiologic Studies Depression Scale (CES-D)

# Patient – Intake Process

## Initial Information Questionnaire



[Home](#)

---

[Messages](#)

---

[Log Off](#)

### Initial Information

#### Demographic Questions

**Are you enrolled in MyHealthVet?**

☒ Yes

☐ No

**Indicate the highest level of education that you've completed:**

☐ elementary school

☐ high school or equivalent

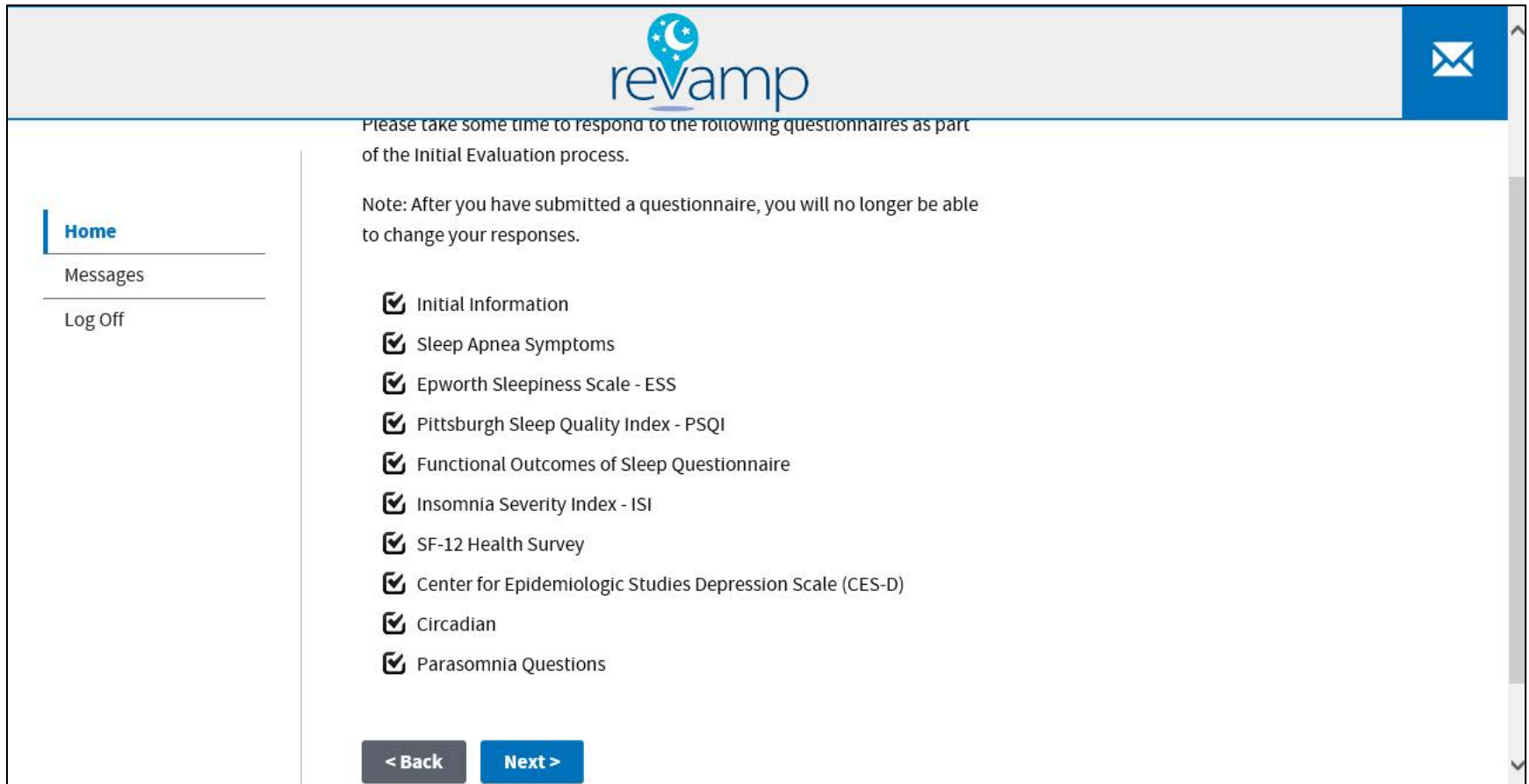
☐ associate's degree

☐ bachelor's degree

☐ graduate degree(s)

# Patient –Intake Process

## My Sleep Health Step: Questionnaires.



The screenshot shows a web application interface for a patient intake process. At the top, there is a header bar with the 'revamp' logo on the left and a blue button with a white envelope icon on the right. Below the header, the main content area is divided into two sections. On the left is a sidebar with a vertical list of links: 'Home' (highlighted with a blue bar), 'Messages', and 'Log Off'. The main content area on the right contains a paragraph of text, a note, and a list of questionnaires. At the bottom of the main content area are two buttons: '< Back' and 'Next >'. The background of the page is white, and the overall design is clean and professional.

revamp

Please take some time to respond to the following questionnaires as part of the Initial Evaluation process.



Note: After you have submitted a questionnaire, you will no longer be able to change your responses.

- ☒ Initial Information
- ☒ Sleep Apnea Symptoms
- ☒ Epworth Sleepiness Scale - ESS
- ☒ Pittsburgh Sleep Quality Index - PSQI
- ☒ Functional Outcomes of Sleep Questionnaire
- ☒ Insomnia Severity Index - ISI
- ☒ SF-12 Health Survey
- ☒ Center for Epidemiologic Studies Depression Scale (CES-D)
- ☒ Circadian
- ☒ Parasomnia Questions

< Back   Next >



# Patient – Intake Process



[Home](#)

---

[My Profile](#)

---

[My Sleep Health](#)

---

[Treatment Results](#)

---

[▶ Education](#)

---

[▶ FAQ](#)

---


[Messages](#)

---


[▶ Help](#)

---

[Log Off](#)



### Congratulations



You have completed your REVAMP account setup!

Your provider has been notified and will contact you for your next steps.

# Provider – Reviews Questionnaires

Home File Management Administration Messages FAQ Help

12/7/2016 1:23 PM 10 Log Off

Assessment Report

Completed On: 12/02/2016 [Export Data](#)

### Initial Information

Are you enrolled in MyHealthVet?

yes

Indicate the highest level of education that you've completed:

bachelor's degree

Sex:

female

Please indicate whether you have any of the following sleep problems. Check all that apply

I do not have a sleep problem

Have you ever seen a sleep specialist, either for a daytime or overnight appointment?

yes

Are you currently pregnant?

no

What is your menopausal status?

Post menopause


Close


Treatment

- Patient
  - Demographics
  - Summary
  - Assessments
    - 1 Follow Up - 12/06/2016
    - IE Satisfaction Quest - 12/01/2016
    - Initial Eval - 12/02/2016
      - Initial Information**
      - Sleep Apnea Symptoms
      - Epworth Sleepiness Scale
      - Pittsburgh Sleep Quality
      - Functional Outcomes of
      - Insomnia Severity Index
      - SF-12 Health Survey
      - Center for Epidemiologi
      - Circadian
      - Parasomnia Questions
  - Visits
    - Initial Eval - 12/5/2016



# Patient – Completes Study





NOX T3

Home

My Profile

**My Sleep Health**

**Sleep Testing**

Treatment Results

▶ Education


▶ FAQ

Messages

▶ Help

Log Off

NOX-T3 portable sleep monitor patient hook-up



CareFusion NOX-T3™  
Patient hook-up instructional video

⏮

⏸

🔊

0:03 / 4:54

CC

⚙

YouTube

⏪

# Provider – Assigns PAP Machine

The screenshot shows a web-based medical application interface. At the top, there is a navigation bar with links: Home, File, Management, Administration, Messages, FAQ, and Help. On the right of the navigation bar, it displays 'SITE ADMIN - 12/6/2016 5:56 PM', a green status indicator with '15', and a 'Log Off' button. Below the navigation bar is a sidebar on the left with a tree view containing 'Treatment', 'Patient' (with sub-items 'Demographics' and 'Summary'), 'Assessments' (with sub-items '1 Follow Up - 12/06/2016', 'IE Satisfaction Quest -', and 'Initial Eval - 12/02/2016'), and 'Visits' (with sub-item 'Initial Eval - 12/5/2016'). The main content area is titled 'EXTRANINE, NINE. 83yo F, BMI: 25.80' and 'Patient Demographics'. It includes a checkbox for 'Active In Program' which is checked. Below this are two tabs: 'Patient' and 'PAP Machine', with the latter being selected. A red asterisk and the text 'Required field.' are shown. The 'Device' section contains a 'Serial Number' field with the value '20154216021', a 'Type of Unit' section with radio buttons for 'APAP' (selected), 'BPAP', 'CPAP', and 'ASV', and a 'Manufacturer' dropdown menu set to 'ResMed'. The 'Status' section shows a green box with the text 'Device Confirmed Ready to receive data from the device. 12/6/2016 6:01:57 PM' and a checked checkbox for 'Active Device'. At the bottom, the 'PAP Pressure Range' section has two input fields: 'Low Pressure (4 - 20)' with the value '15' and 'High Pressure (4 - 20)' with the value '12'.

Home File Management Administration Messages FAQ Help

SEARCH [Icons] SITE ADMIN - 12/6/2016 5:56 PM 15 Log Off

Treatment  
Patient  
Demographics  
Summary  
Assessments  
1 Follow Up - 12/06/2016  
IE Satisfaction Quest -  
Initial Eval - 12/02/2016  
Visits  
Initial Eval - 12/5/2016

EXTRANINE, NINE. 83yo F, BMI: 25.80

### Patient Demographics

☒ Active In Program

Patient PAP Machine

**Required field.**

Device Status

**Serial Number** 20154216021

**Type of Unit** ☒ APAP  
☐ BPAP  
☐ CPAP  
☐ ASV

**Manufacturer** ResMed

Device Confirmed  
Ready to receive data from the device.  
12/6/2016 6:01:57 PM

☒ Active Device

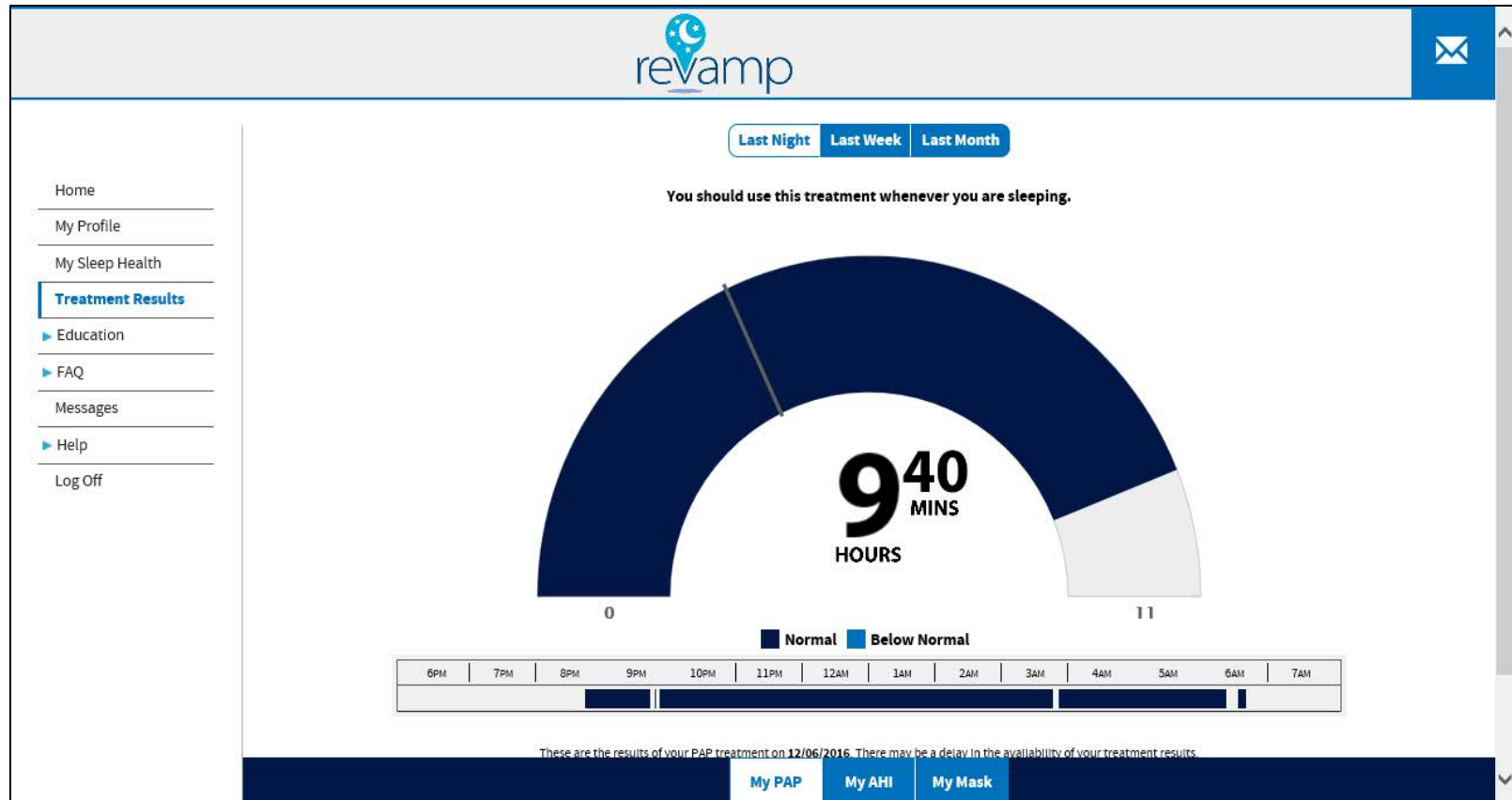
PAP Pressure Range

**Low Pressure** (4 - 20) 15



**High Pressure** (4 - 20) 12

Provider reviews the results of the patient's home sleep study. If the patient is diagnosed with sleep apnea, a PAP machine is assigned to the patient.

# Patient – Treatment Results




# Patient – Treatment Results



[Home](#)  
[My Profile](#)  
[My Sleep Health](#)  
**[Treatment Results](#)**  
[▶ Education](#)  
[▶ FAQ](#)  
[Messages](#)  
[▶ Help](#)  
[Log Off](#)

Last NightLast WeekLast Month



### Congratulations!

Information from your PAP unit indicates that you have a good mask fit.

Remember not to have the mask too tight.

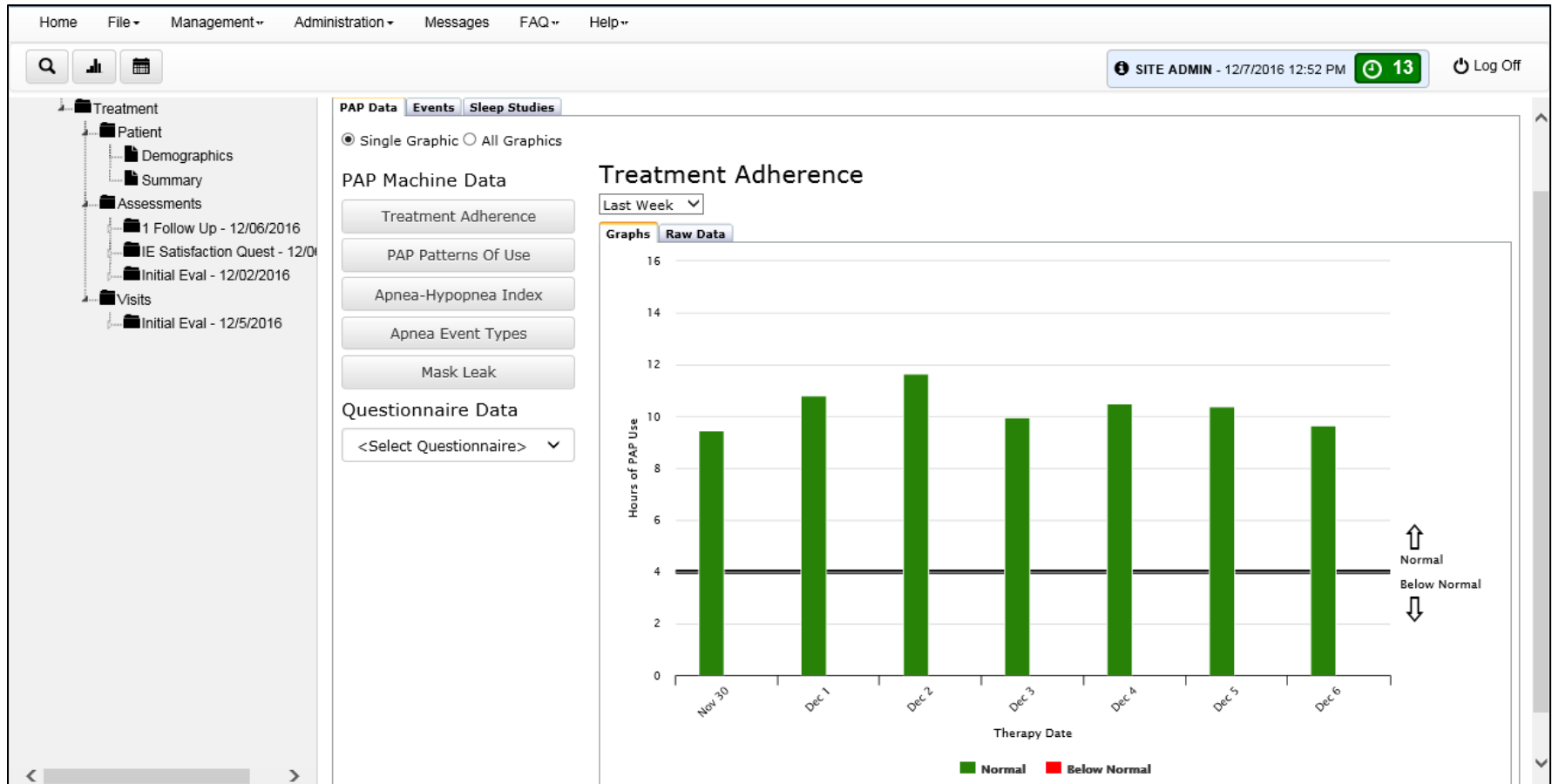
These are the results of your PAP treatment on 12/06/2016. There may be a delay in the availability of your treatment results.

My PAP

My AHI

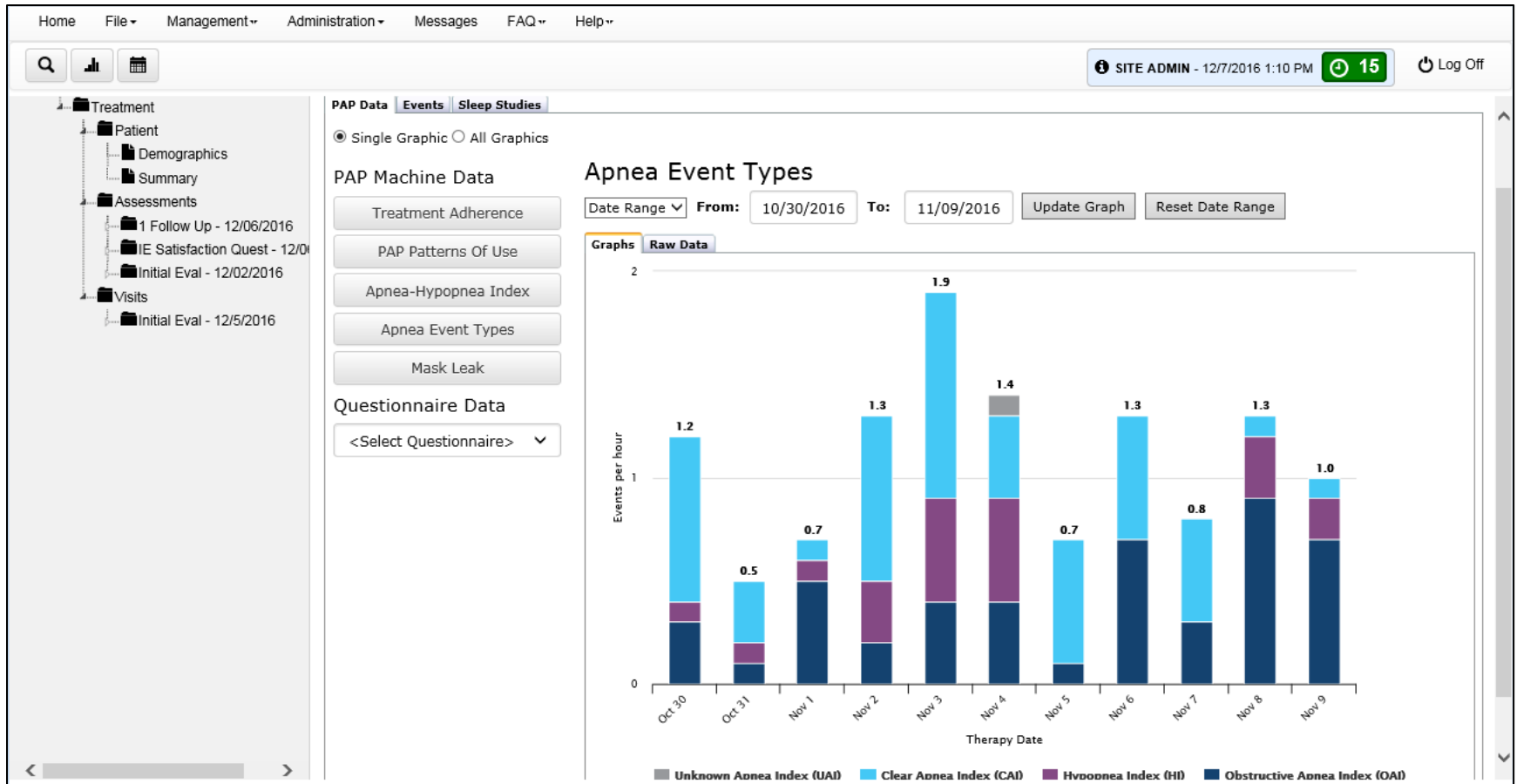
My Mask

# Provider – Reviews Patient PAP Data





# Provider – Reviews Patient PAP Data



# What can REVAMP do for you?



- ▶ Immediate gains:
  - Rapid expansion of Home Sleep Testing
  - Rapid expansion of Sleep Telehealth
  - Rapid expansion of Hub and Spoke Models of sleep care with REVAMP at the core

# Thank you!

What future topics would you like to discuss?

Please provide feedback at this link:

<https://www.surveymonkey.com/r/JJ6V7QB>