Sleeping Management Software

(ResAssist for Web)

User Manual

Resvent Medical Technology Co., Ltd.

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1 Software overview

1.1 Composition

The Sleep Management Software is hereinafter referred to as "ResAssist for Web" or simply "ResAssist". The product architecture is B/S architecture, using cloud server, the software is based on Web operation, consists of server side and client side, in which the server side consists of data storage and management, the client side is divided into the patient side, the doctor's side, the service institution side. The patient side consists of compliance report, my device, health history, uploading SD information, and help. The doctor side consists of patient list, data upload, R-Track, compliance list, follow-up management, and help.

institution side consists of compliance Management, Doctor Management, Device Management, institution Management, Permission Management, Log Management, Help.

1.2 Introduction

ResAssist for Web is a lightweight web browser-based application for managing patient sleep data from the Rongxin Positive Pressure Ventilation series of devices. The software requires no installation and can be accessed by patients, doctors, and institutions through a browser.

ResAssist for Web is hereinafter referred to as ResAssist.

1.3 Product Information

Product name	Trade name	Product model	Software version
Sleep Management Software	ResAssist	ResAssist for Web	Refer to the [Clinical]→[Help]→[about] in the software interface

1.4 Intended use

ResAssist is intended to receive patients data from Resvent compatible devices (Positive Airway Pressure System) via SD cards/Wifi/GSM and process them into data reports. When doctors make healthcare decisions, the data can be used as one of the references. ResAssist can be used in Web and application. The software in Web can remotely change the parameters of Resvent compatible devices(e.g. ventilation mode, treatment pressure, humidity, etc.) to treat obstructive sleep apnoea(OSA) under the accounts of doctors.

1.5 Intended user

"ResAssist software is intended for use by:

Patients who receiving therapy through Resvent Positive Airway Pressure System,
Physicians managing patient-related data, and
Authorized service institutions (including Resvent PAP Device Distributors and Service Providers)."

User qualifications:
The person operating the device by the instruction in the user's manual is referred as the "user". In contrast, a "patient" is the person receiving the therapy. Always perform all the operating steps in accordance with the user's manual.
Clinicians can receive specified professional training from the manufacturer-authorized distributor regarding proper device operation.

User Obligations:
During the use of the software in conjunction with the device, if any serious incidents occur, please follow these steps:
1. Immediately stop using the software and related devices.
2. Record the details of the incident.
3. Contact Resvent and report the incident to the regulatory authorities in your country or region.
Resvent will promptly address the issue and improve the product to ensure the safe use by other users and patients.
Note: The "distributor" refers to the distributor of Positive Airway Pressure System supplied by manufacturer.

1.6 Intended patient

The patient population of Sleep Management Software is adult.

1.7 Contraindications

Refer to the user guide of the attached Resvent compatible devices (Positive Airway Pressure System) for contraindications oradverse effects.

1.8 Indications

Patients who suffer from obstructive sleep apnoea.

1.9 Clinical benefit

The ResAssist indirectly benefit patients with promoting treatment adherence by allowing doctors to remotely access sleep and treatment data and modify treatment plans.

1.10 Recommended configuration

PC	Hardware	CPU	Dual-core 2G and above
		RAM	8GB and above
		Hard Disk	100GB and above
		Display Resolution	1920×1080 and above
		USB Port	USB2.0 and above
	Software	Operating System	32-bit or 64-bit Windows 7 and above
			Mac OS 10.0 and above
		Browser	Google Chrome Version 40.0 and above
		PDF Reader Software	(Adobe Reader®)

1.11 Software Features

No.	Custom Functions	Performance efficiency
1.	Accuracy of treatment data	The software has a 100% preparation rate for data statistics uploaded by devices.
2.	Accuracy of remote parameter adjustment	The accuracy rate of remote adjustment of equipment parameters is 100 %.
3.	Page Access	The web page has been open for less than 8 seconds.
4.	Upload treatment data on SD card:	The daily data upload time should not exceed 2 minutes.
5.	Generate compliance report	The report generation time is less than 30 seconds.
6.	Homepage statistics	The calculation time for statistical data is less than 30 seconds.
7.	Data access	The response data loading time is less than 10 seconds.
8.	Sleep waveform loading:	Loading time less than 10 seconds.
9.	Remote setting of device parameters:	After remote setting of parameters, the device takes effect within 30 seconds.
10.	Accessing the parameter setting interface	The loading time for accessing the web setting parameter interface is within 8 seconds.
11.	User concurrency	The number of concurrent web side users is within 4500.

2 Basic Operations

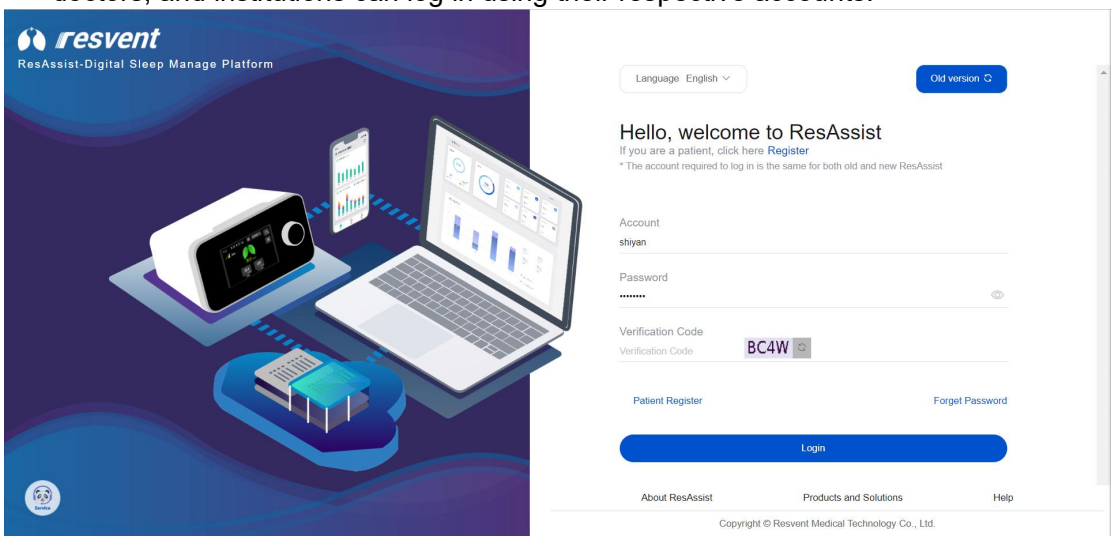
Note:

- It is recommended to install genuine antivirus software on your windows system to protect your system and software from attacks.

2.1 System access

The institution delivers the ResAssist access address to the end user in the form of an email. Users can save or favorite the system wide address in their browser.

Copy the ResAssist address https://resassist.resvent.com/, paste it into the Google address bar, and enter to access the system login page as shown below. Patients, doctors, and institutions can log in using their respective accounts.



It is recommended to install genuine antivirus software on your computer to protect your computer and software from attacks.

To use the system, you need to install Google Chrome to access it. If you use a non-Google browser to access the system, the interface style may be abnormal.

2.2 Delete Account

On the software operation interface, Click on the user icon in the top right corner → click on [**Delete Account**] to log out and delete the currently logged-in account.

Note: After your account is deleted, all user data will be completely erased and cannot be recovered, and the account will no longer be usable.

2.3 Accessing the electronic user manual

You can download the electronic user manual in the following two ways:

- Go to [**Clinical**] -> [**Help**] and click [**Download the electronic user manual**].
- When entering the software, if the electronic user manual cannot be accessed or downloaded normally, you can enter

"https://www.resvent.com/en/software-information.html" link to download the electronic user manual.

Note:

- You can download the latest manual and all previous versions of the manual.
- You can contact the after-sales service personnel of Resvent to obtain the electronic user manual and printed manual.
- The Configuration requirements for viewing the electronic manual can be found in Section 1.10.

2.4 Clear the browser cache

If you are using the system, you need to clear the cache of your browser to ensure that you can use it normally.

1. Click on the Setting option of your browser, and select Privacy and security in the interface.
2. Click Clear Browsing Data, select the Time Range and content to be cleared, and then click Clear Now to complete the cache cleanup.

2.5 User role

ResAssist Cloud Platform can be used by institutions (Distributor / Service Providers), doctors, and patients. Different roles can use different operational functions after logging in, and the following are the operational instructions for each role.

No.	Role	Description
1	Institutions (Distributor / Service Providers)	Manage device, patient, doctor and related content.
2	Doctors	Manage patient-related content.
3	Patient	Upload therapy data and generate reports.

2.6 Help

Select the [Clinical]→[Help] in the software interface, you can view the software name, model, version, and other information.

3 Institution functions

3.1 Major functions

The ResAssist cloud platform for institutional rights includes the following key features:

Login: Log in to ResAssist using your ResAssist account

Forgot password: reset the password of the ResAssist account.

Home: Display an overview of the data managed by the institution and statistical information.

Patient Management: View and manage basic patient information and therapy reports created by the institution; set patient therapy parameters remotely.

Data Upload: Uploads patient therapy data managed by the institution.

R-Track: Generate simple reports for patients through the sequence code corresponding to the therapy data.

Compliance Management: View and manage patient compliance data of the institution.

Follow-up Management: View and manage patient follow-up records for the institution.

Data Export: View and manage the institution's historical data export records.

Patient Logs: View and manage patient operation logs for the institution.

Doctor Management: View and manage the doctor's account and information of the institution, or invite doctors from other institutions to manage patients together.

Device Management: View and manage the device assigned by the institution.

Consumables Management: View and manage the consumables of the institution's device.

Institution Management: View and manage the subordinate institutions created by the institution.

Role Management: View and manage the roles created by the institution.

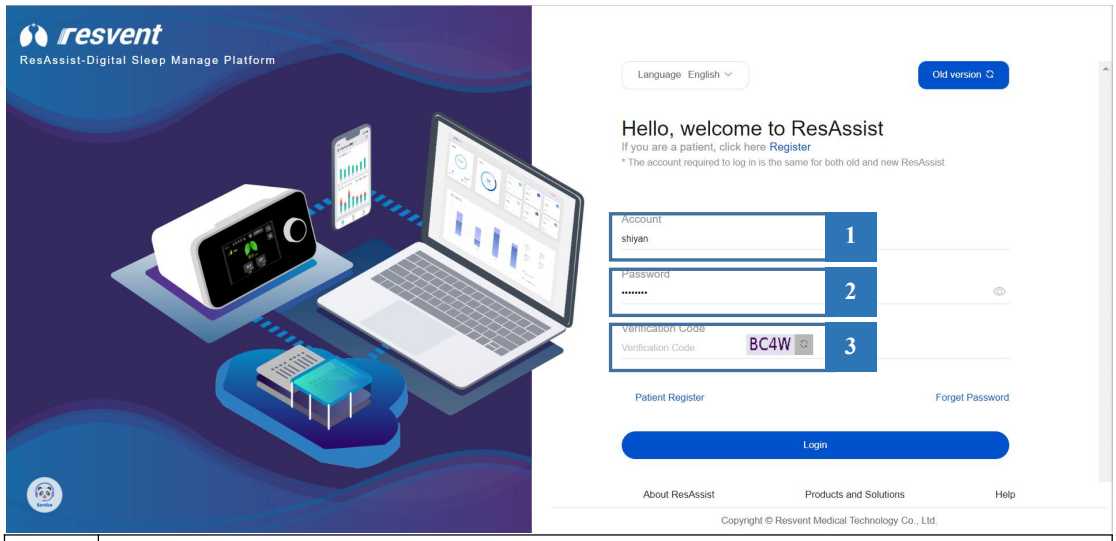
Area Management: View and manage the areas created by the institution.

Staff Management: View and manage the staff accounts created by the institution.

3.2 Login

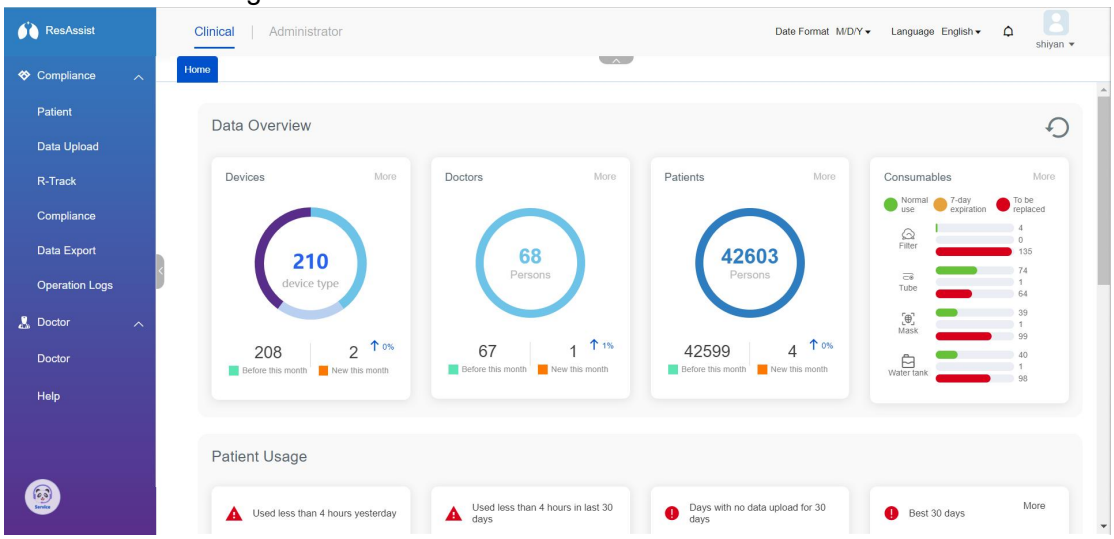
You can use your ResAssist account to log in, and you can use the system functions after logging in.

1. Copy the ResAssist address: https://resassist.resvent.com/, paste it into the Google address bar, and enter to enter the system login page. On the login page, please enter the ResAssist account and password assigned to you by the manufacturer, and fill in the verification code.



1	Account Input Box
2	Password input box
3	CAPTCHA input box

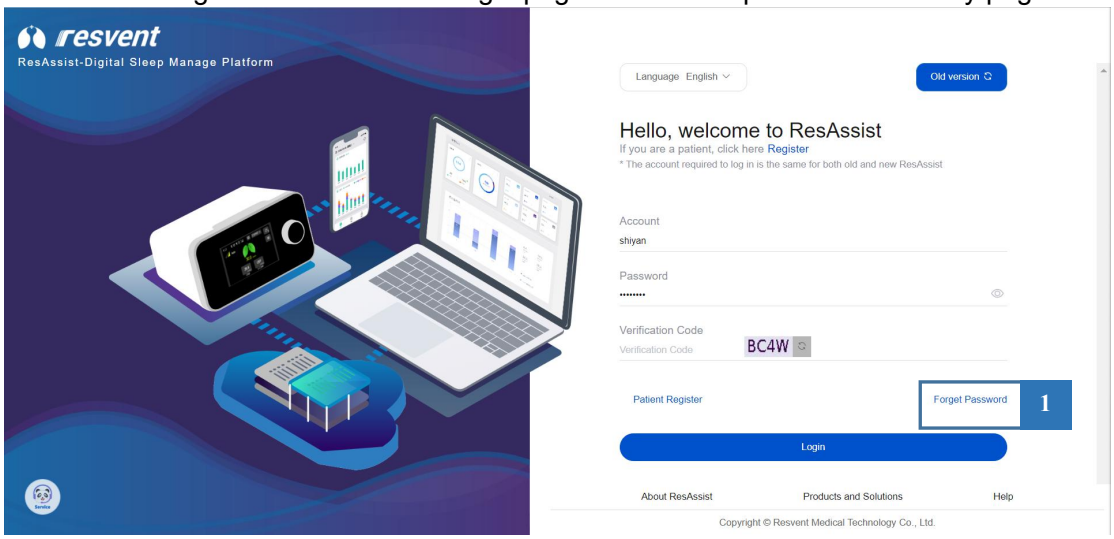
2. After the account, password and verification code are entered, click Login to jump to the Home Page.



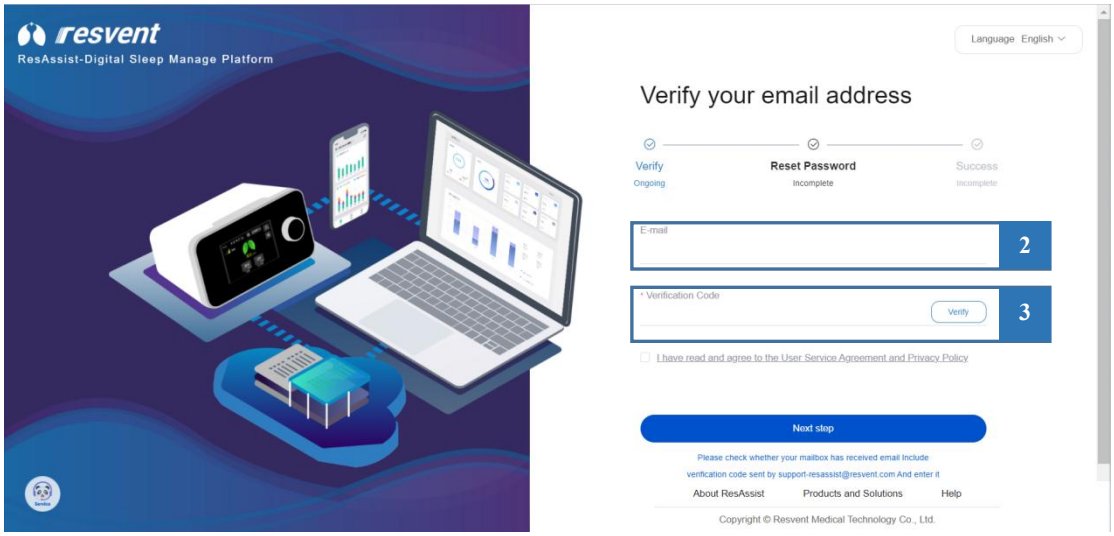
3.3 Forgot password

If you forget your password, you can reset your ResAssist password through Forget Password.

1. Click Forget Password on the login page to enter the password recovery page.



2. Enter the email address associated with the account and click Verify, the system will send a reset password link to the specified email address within 30 seconds. After receiving and entering the verification code, click Next Step to enter the password reset link.

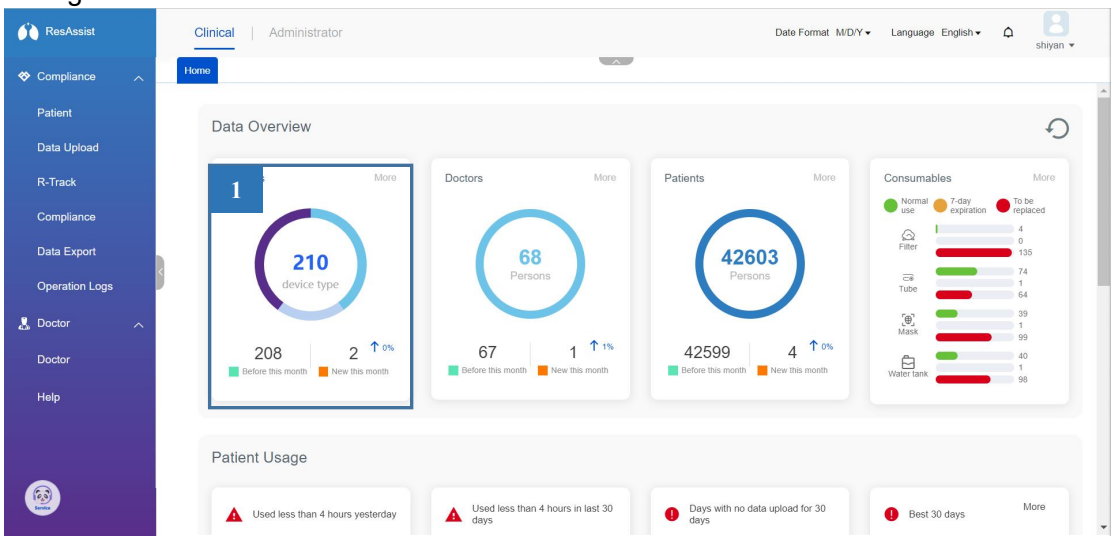


3. After entering and confirming the new password, click Next Step to complete the password reset for the account.

3.4 Home

You can view an overview of each management data in the Home Page.

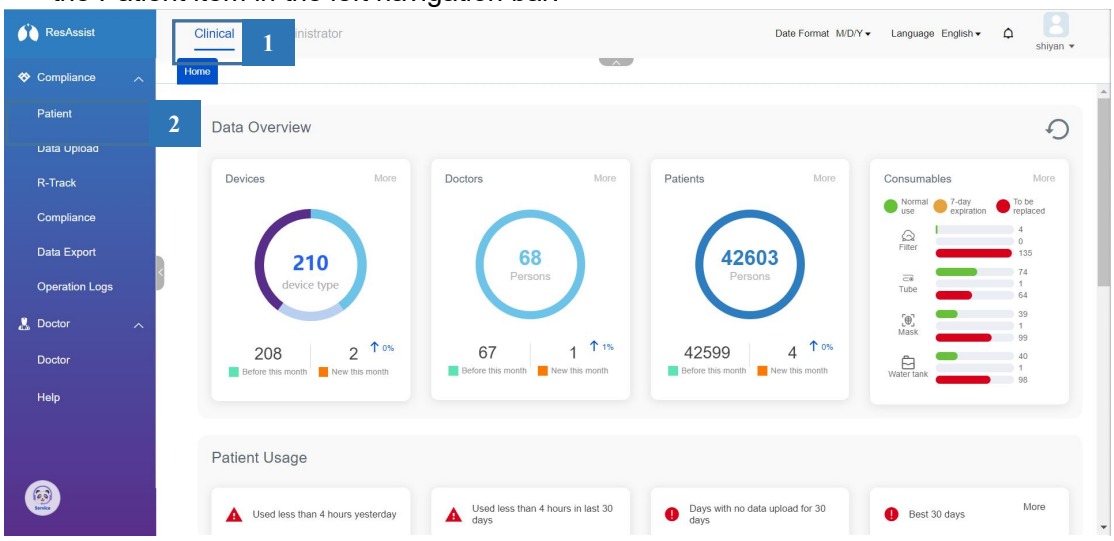
1. When you log in to ResAssist, you will be taken to the Home page by default, which displays device, patient, and doctor data in the form of cards. Click More in the upper right corner of each card to view the details of that data.



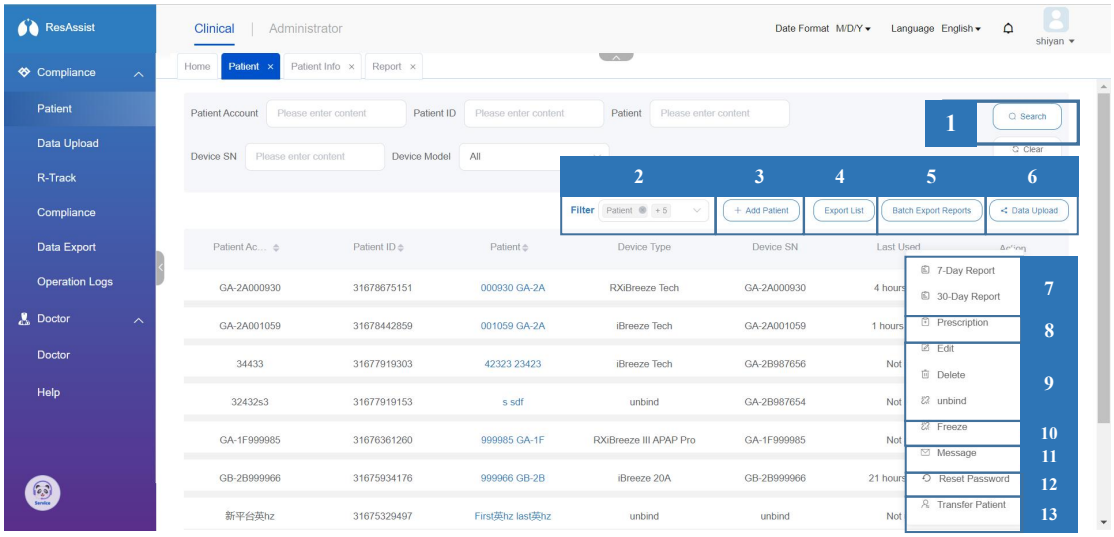
3.5 Patient

You can manage patient-related content in the Patient module.

1. You can access the patient list by selecting the Clinical tab at the top and clicking the Patient item in the left navigation bar.



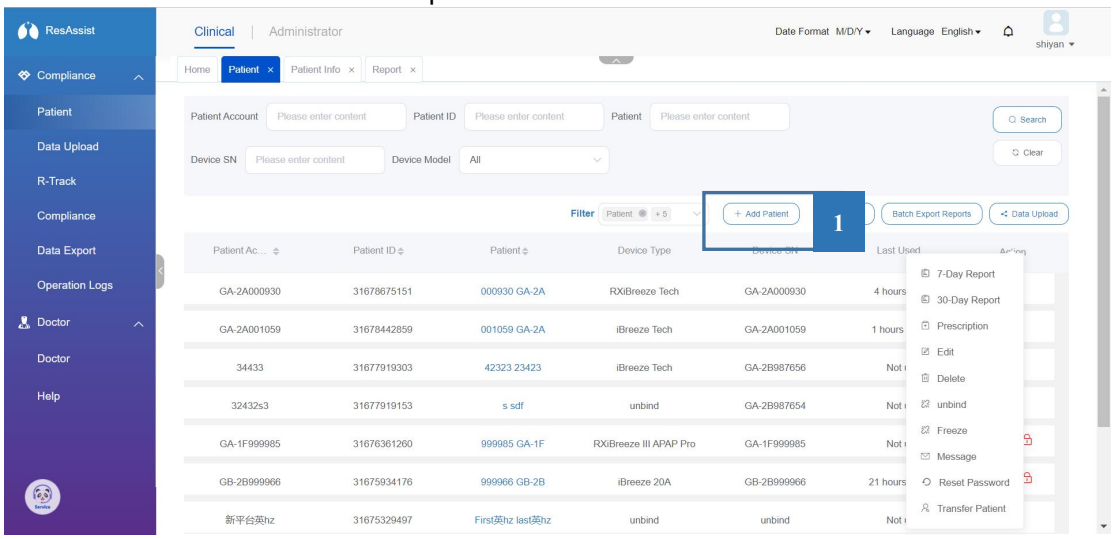
2. In the Patient List, you can complete a series of patient-related actions as follows:



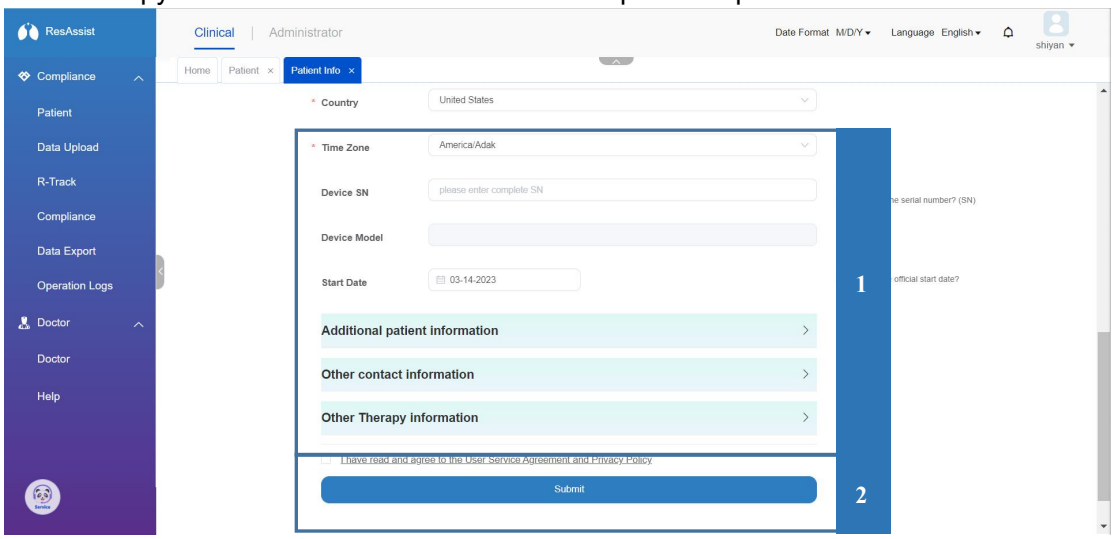
1	search patients by search term
2	Display list fields based on filters
3	Adding patients
4	Export current patient list
5	Batch export patient reports
6	Upload patient therapy data via SD card
7	Generate 7 days / 30 days patient therapy report
8	Remote setup of patient therapy parameters
9	Edit, delete, unbind patients
10	Freeze, activate patient account
11	Send messages
12	Reset patient password
13	Transfer patients and device to other institutions

3.5.1 Adding patients

1. In the Patient list, you can add a patient via Add Patient. Click on the Add Patient button in the list to access the patient addition form.

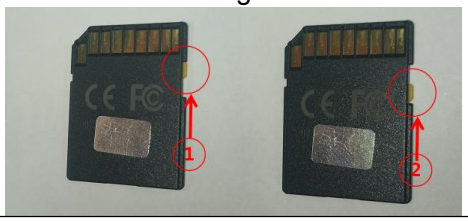


2. In the patient addition form, fill in the patient's Account / Basic / Additional / Contact / Therapy information and click Submit to complete the patient addition.



3.5.2 SD card data uploads

1. In the patient list, the institution can upload the patient therapy data through the SD card and generate the therapy report of the corresponding period through the uploaded data. The institution needs to install the SD card to the card reader correctly and make sure that the switch status of the SD card is on, the data can not be imported when it is off. As shown in the figure below.

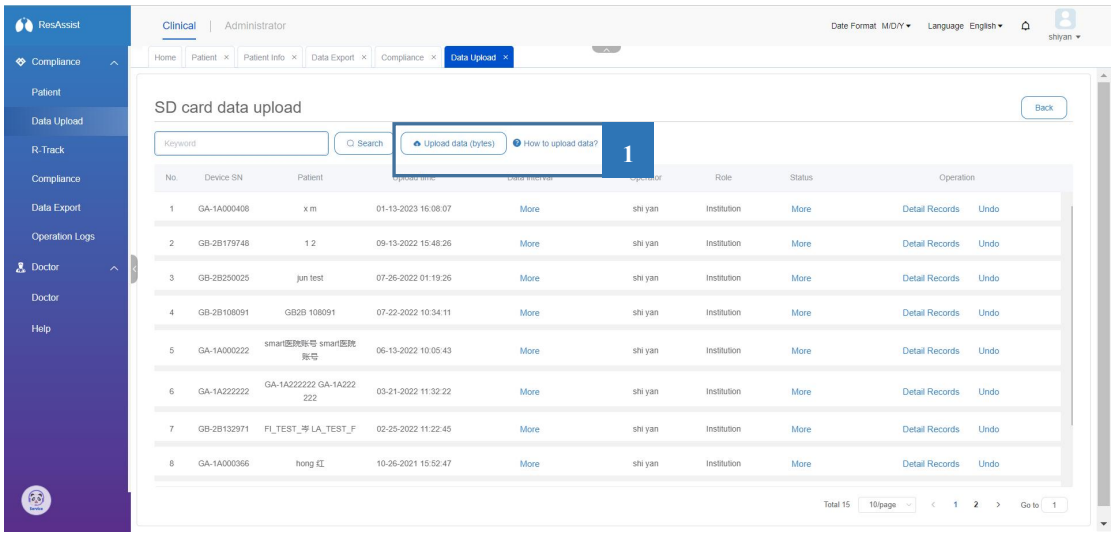


1	On state
2	Off state

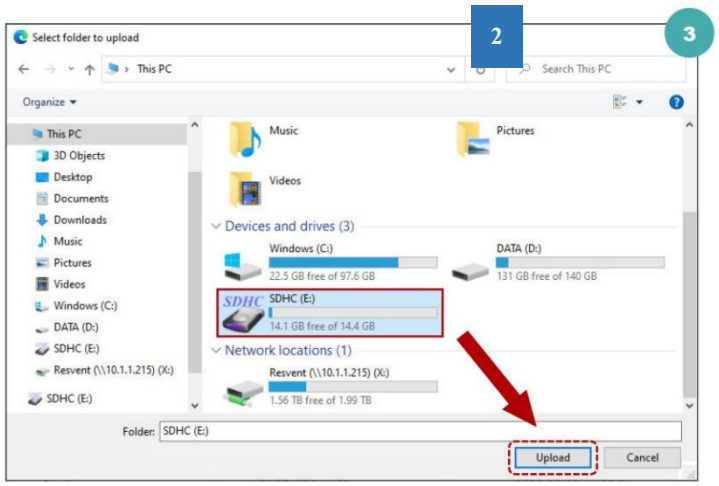
2. Insert the SD card according to the card reader's insertion port marking and install the SD card into the card reader. After installation, insert the card reader into the USB port of your computer.



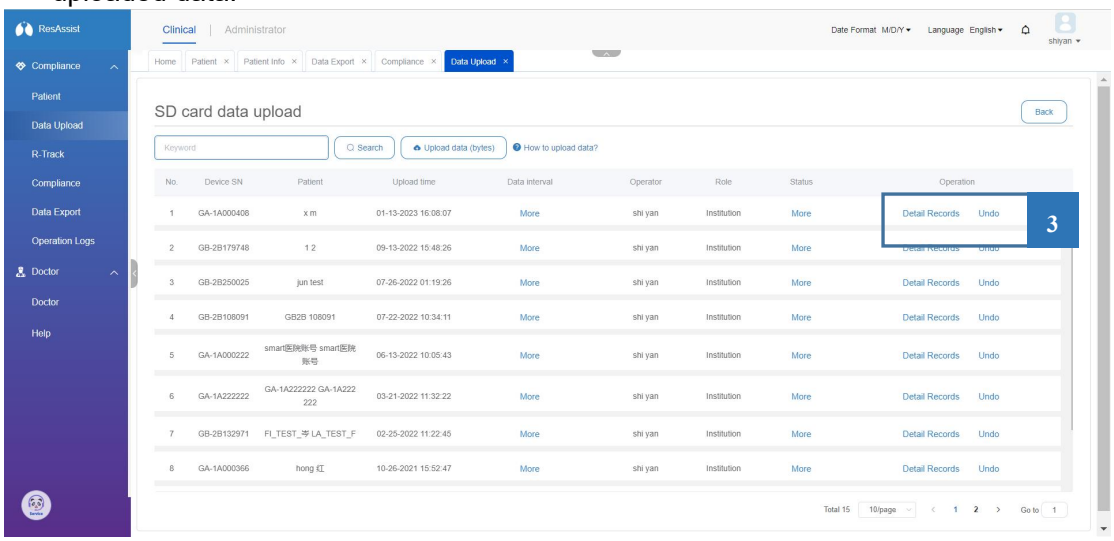
3. In the Patient List, click Data Upload to jump to the Data Upload page. Click the Upload Data (Bytes) button in this interface to bring up the local path selection window.



4. In the Local Path Selection window, check the directory where the SD card is located, or select the Therapy folder within the directory and click Upload to upload.

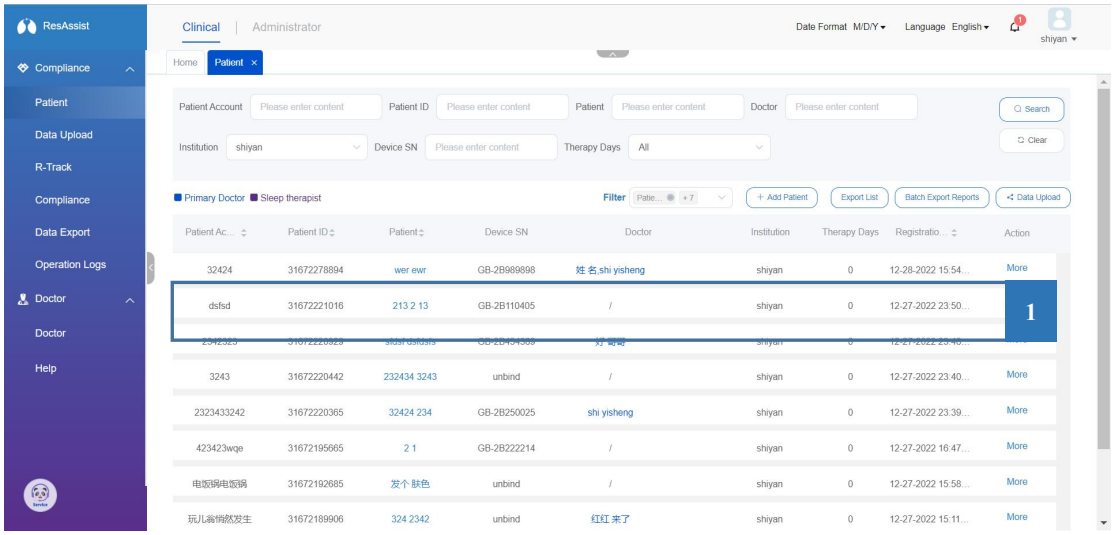


5. During the data upload period, the institution can view the progress of the upload in the Data Upload list, and after the upload is complete, the data for that time period will be used as the basis for generating patient therapy reports. Click Detail Record / Undo in the list to view the details of the therapy data for that session, or to withdraw the uploaded data.

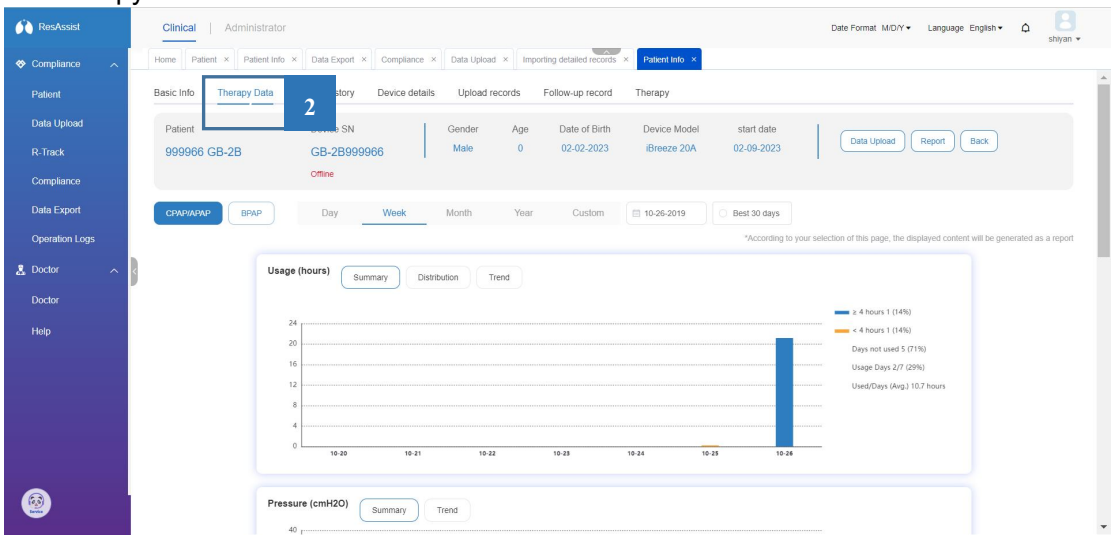


3.5.3 Report generation

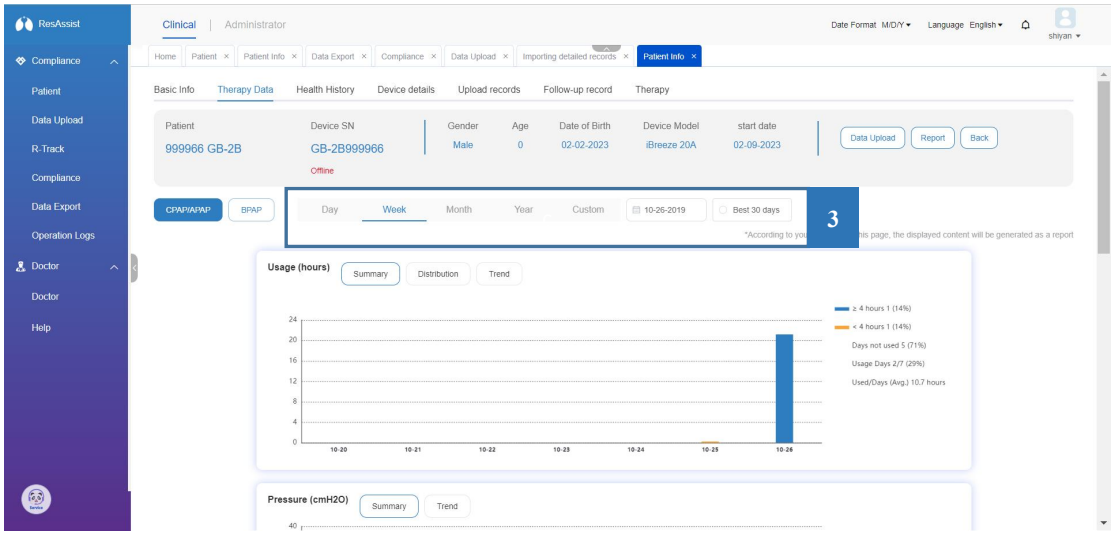
1. In the Patient list, you can generate a therapy report based on the data that has been uploaded by the patient. Double-click on a patient in the list to view the patient's details.



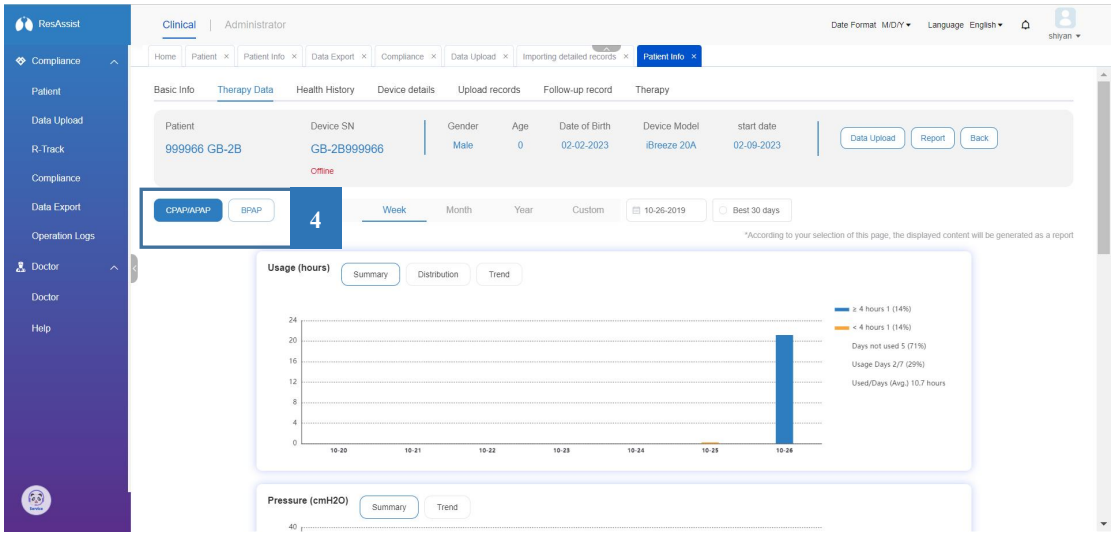
2. In the Patient Details page, click Therapy Data to view the patient's historical therapy data.



3. Institutions can switch between data zones and therapy modes to view patient data performance. Institutions can click on the default option for a data interval to view the patient's data for a single day, the last 7 days, the last 30 days, the last 1 year from the patient's last date of use, or to view the patient's data for a custom time period, which cannot exceed 1 year.



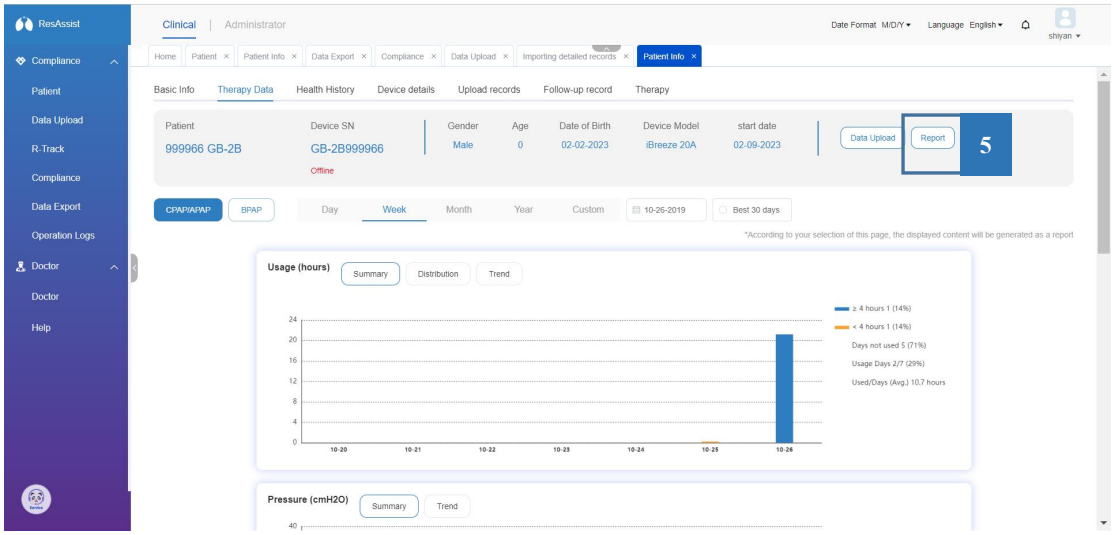
4. At the same time, you can switch the therapy mode according to the patient's model, and the therapy parameters displayed in this interface will be switched with the CPAP/APAP or BPAP therapy modes, and the corresponding summary, distribution, and trend information will be displayed in the charts in the form of bar charts and discounted trend charts.



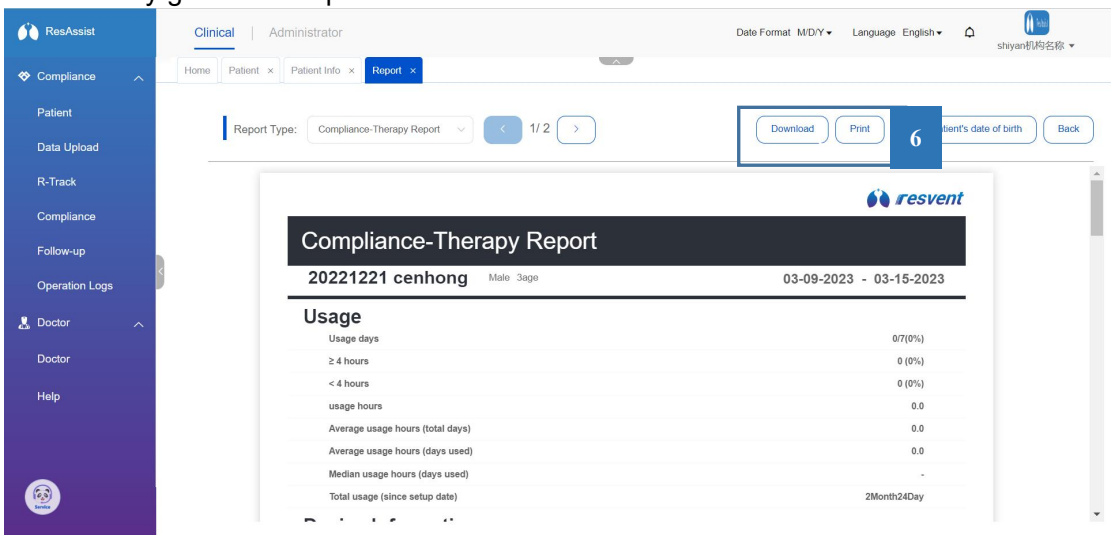
5. The various parameters corresponding to the CPAP/APAP and BPAP therapy modes are shown below:

1	CPAP/APAP: Usage (hours), Pressure (cmH2O), Leak (L/min), Event
2	BPAP: Usage (hours), AHI (event/hour), IPAP (cmH2O), EPAP (cmH2O), Leak (L/min), Tidal Volume (mL), Minute Ventilation (L/min), Respiratory Rate (bpm)

6. After previewing, click Report in the interface to generate the corresponding therapy report for the patient data of the currently selected time period and therapy mode in the therapy report page.

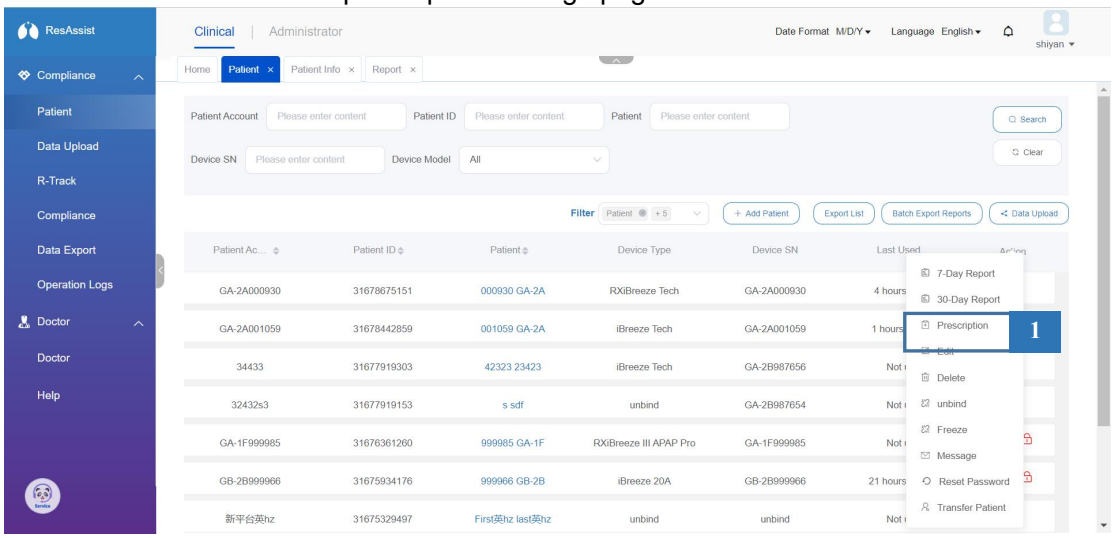


7. You can click the Download / Print button to download or print the contents of the currently generated report.

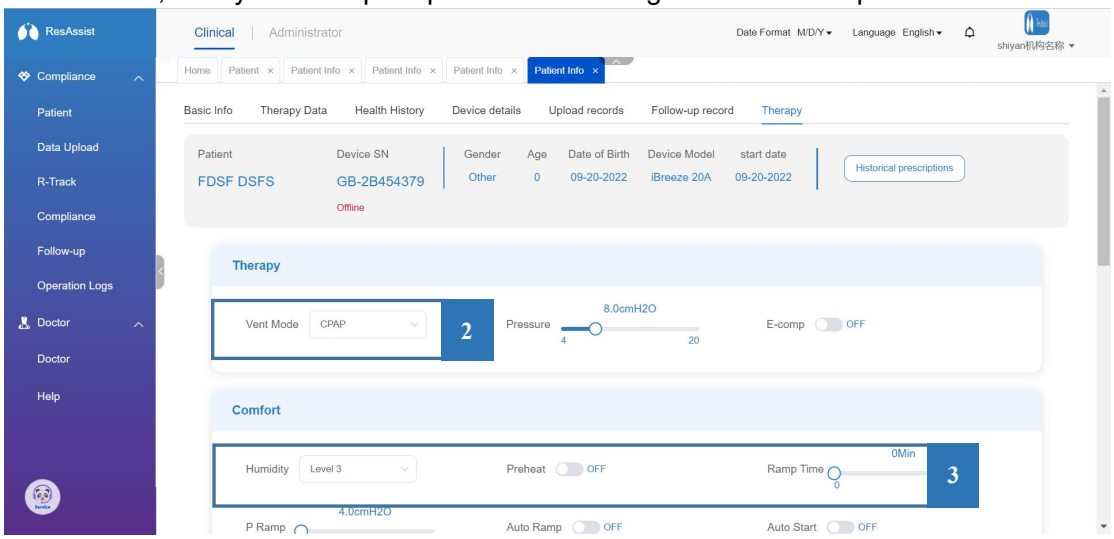


3.5.4 Remote therapy parameters

1. You can remotely modify the therapeutic parameters of the patient's ventilator through the Prescription function. In the patient list, click the More - Prescription button in the list to access the prescription settings page.



2. You can switch the therapy mode of the current patient according to different models, and adjust the therapy parameters, comfort parameters and general parameters under each mode. When adjusting the parameters, the status of each parameter will be displayed in the interface in real time, and you can modify the parameter values by dragging the bar or switch. Some of the parameters have linkage relationship, when your current setting is out of the range of the parameter to be modified, the system will prompt an error message and reset the parameter value.

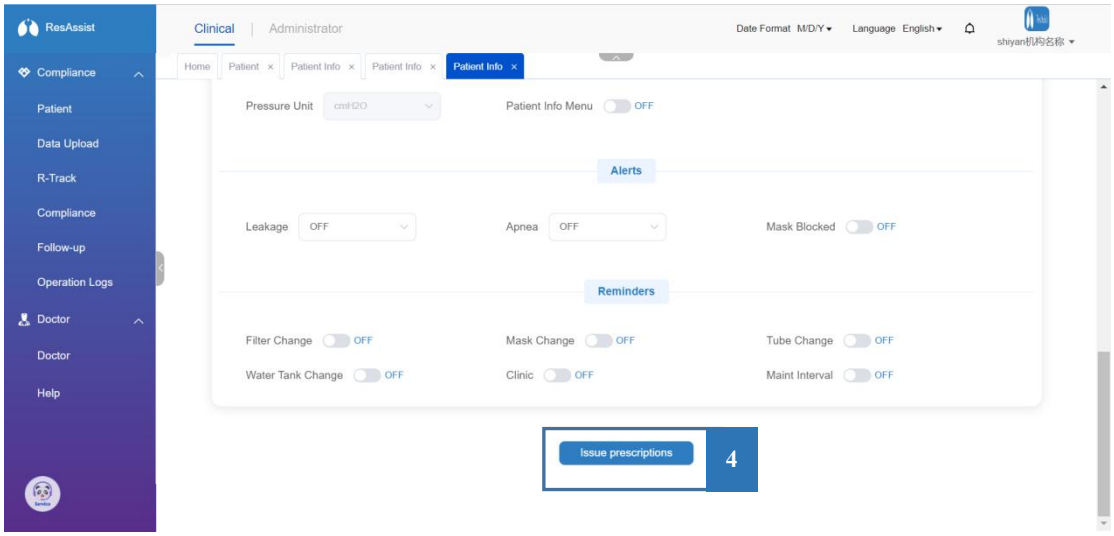


3. Each parameter will switch with the currently selected model and therapy mode, and the adjustable parameters are shown below.

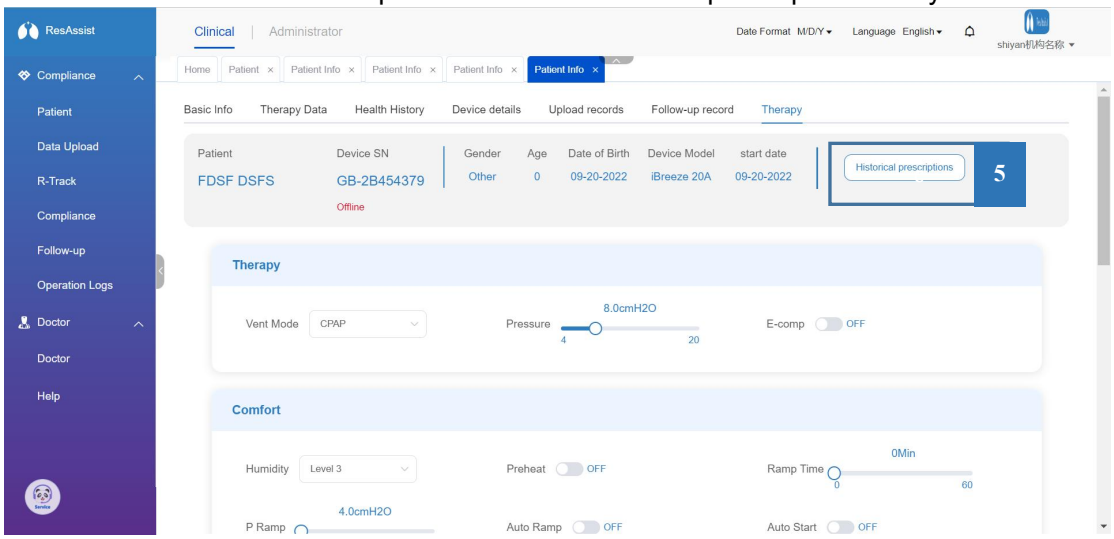
1	therapy Parameters: Pressure, Pmax, Pmin, Ti, IPAP, EPAP, IPAP Max, IPAP Min, EPAP Max, EPAP Min, E- Trigger, I-Trigger, Press ADJ, Max Ti, Min Ti, F, Auto F, Vent Mode, R-Care, E-Comp, VT, PS, IPR, Rise Time, Titra Time

2	Comfort parameters: Humidity, Preheat, Ramp Time, P Ramp, Auto Ramp, Auto Start, Auto Stop, IPR, Mask Type, Tube Type, P Mask Fit.
3	General parameters: Pressure Unit, Patient Info Menu, Leakage, Apnea, Mask Blocked, RR High, RR Low, Mv Low, IPAP High, EPAP Low, VT Low, Filter Change, Mask Change, Tube Change, Water Tank Change, Clinic, Maint Interval.

4. After the parameters are adjusted, click Issue therapy parameters to issue the prescription. Before issuing the prescription, please make sure that the patient has used the device and has bound the doctor, otherwise the prescription will be issued failed.

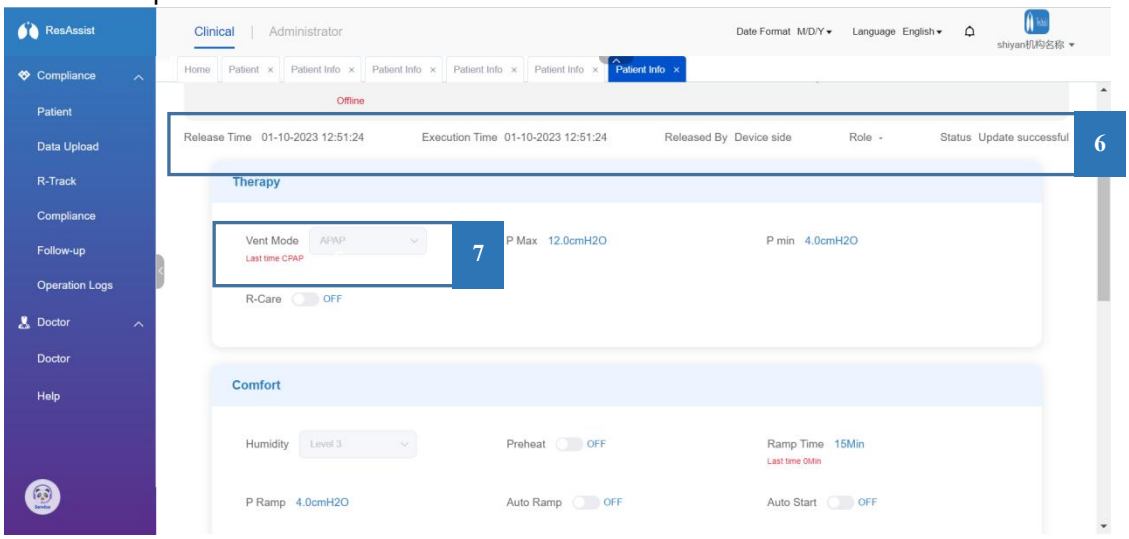


5. When a prescription is issued, a profile corresponding to the prescription is automatically generated in the cloud and transferred to the device over the network. Once the prescription has been issued, you can return to the patient's therapy details and click Historical Prescription to view the historical prescription history.

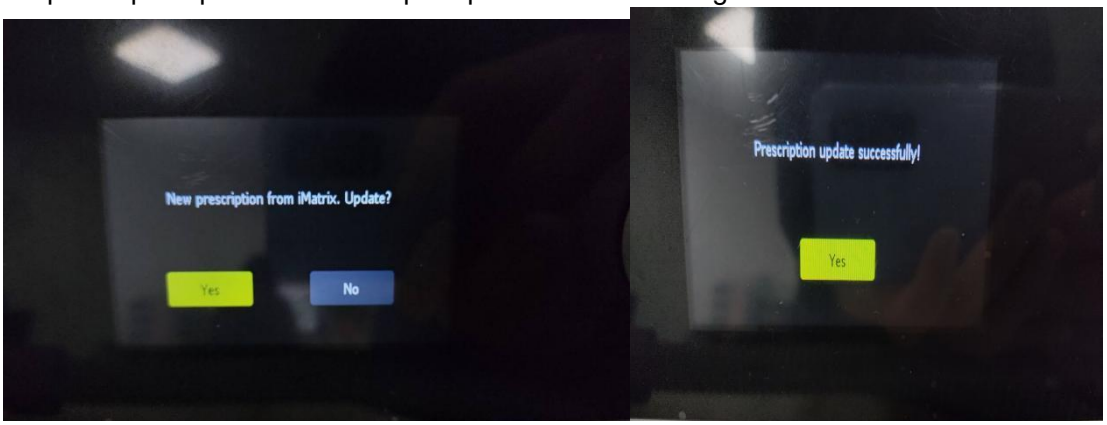


6. Click on the historical prescription record in the list to view the details of that prescription. The page will display the status of the prescription issued with the time of

application and mark the parameters that are inconsistent between this prescription and the previous one.



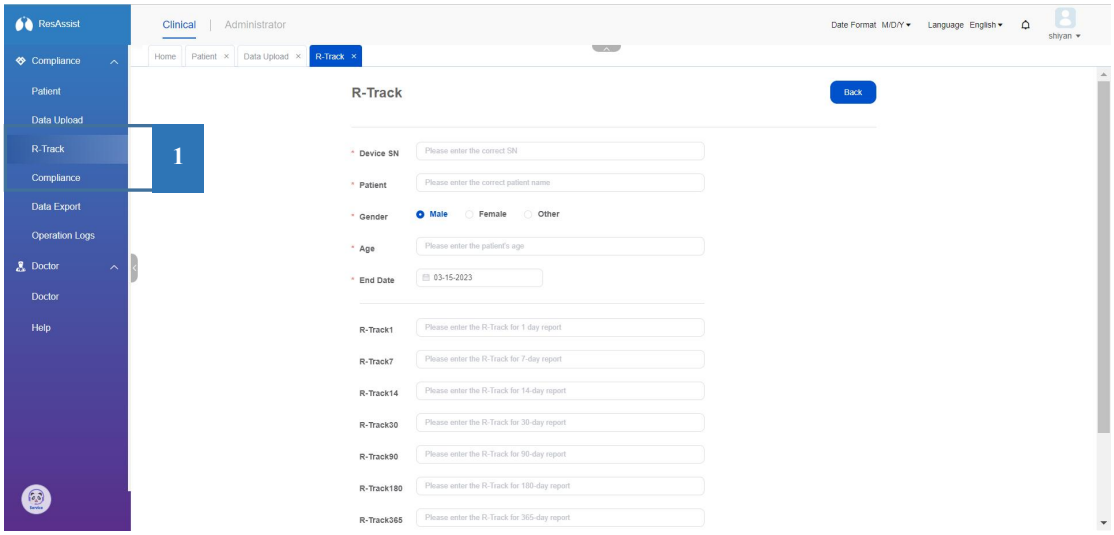
7. When the device side is powered on and connected, it will automatically receive the prescription profile from below the cloud. The patient will be reminded whether to update it or not. By clicking Yes, the device side will automatically apply the latest prescription parameters and prompt a success message.



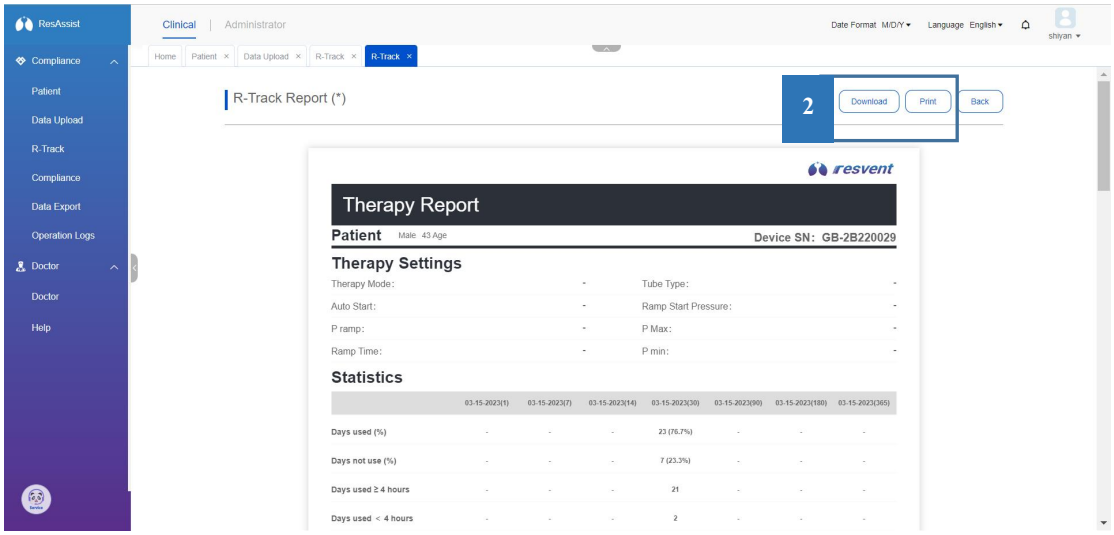
* If the device is currently ventilating when the prescription is issued, the device will automatically update and apply the prescription, which will take effect immediately after a brief cessation of ventilation.

3.6 R-Track

1. At the end of ventilation on the device side, a string of numeric/alphabetic R-Track codes will be generated, and the R-Track codes will record the therapy statistics for that period of ventilation. You can use the R-Track code to obtain a simple report of the patient. Click on the R-Track option in the left navigation bar to access the R-Track interface.



2. In the R-Track page, you need to enter the SN of the device for which the target report is to be generated, the patient's name, gender, age, and the report due date. Once completed, you will need to enter the R-Track codes for the different time periods. The numbers labeled after each R-Track code correspond to 1, 7, 14, 30, 90, 180, and 365 days of therapy statistics, respectively. You can enter more than one R-Track code, with a minimum of 1 R-Track code.



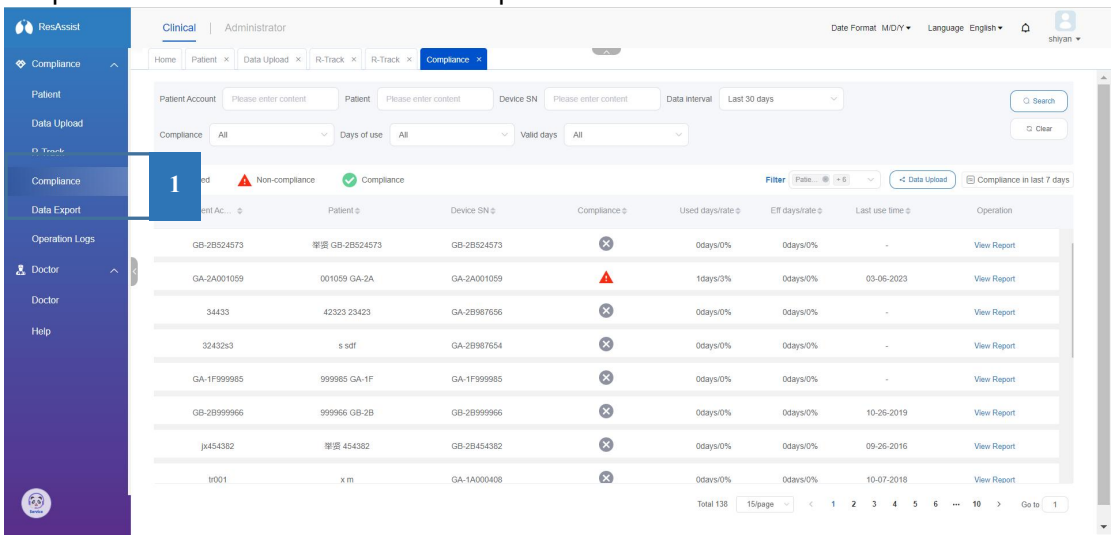
3. Once completed, click Generate Report to generate the appropriate therapy report based on the R-Track code filled in. The report includes therapy settings, statistical information and summary information. Institutions can download or print a PDF

version of the report by clicking Download / Print in the upper right hand corner.The R-Track report is shown in the figure below:

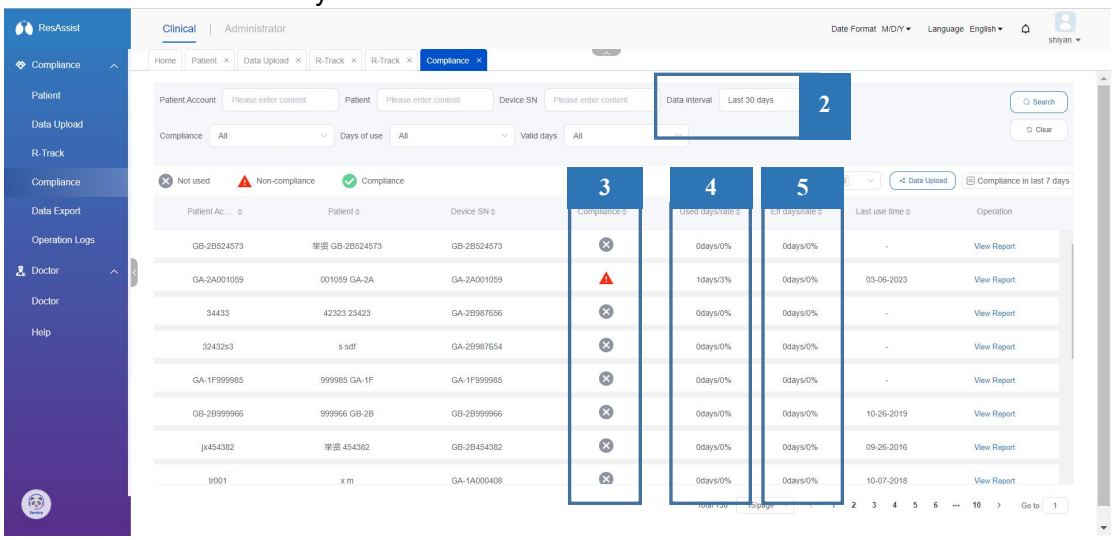
1	Therapy Settings: Therapy Mode, Tube Type, Auto Start, Ramp Start Pressure, P ramp, P max, Ramp Time, P Min
2	Statistics: Days used (%), Days not use (%), Days used ≥ 4 hours, Days used ＜ 4 hours, Average usage (days used), Average usage (days selected), Total usage, Average P95, Average Leak, Average AHI, Average RERA, Average SNI, R-Track
3	Summary: P95(cmH2O), AHI(Events/hour), Average usage(days used)(hours), Percent of days used(%)

3.7 Compliance

1. You can view patient compliance through Compliance. Click Compliance in the left navigation bar to access the compliance list. This list displays the patient's compliance performance over the selected time period.



2. The compliance list defaults to showing patient compliance performance for the last 30 days of the current date. You can toggle the compliance calculation interval within the Data Interval item. The list will display the patient's compliance performance based on the currently selected data interval.

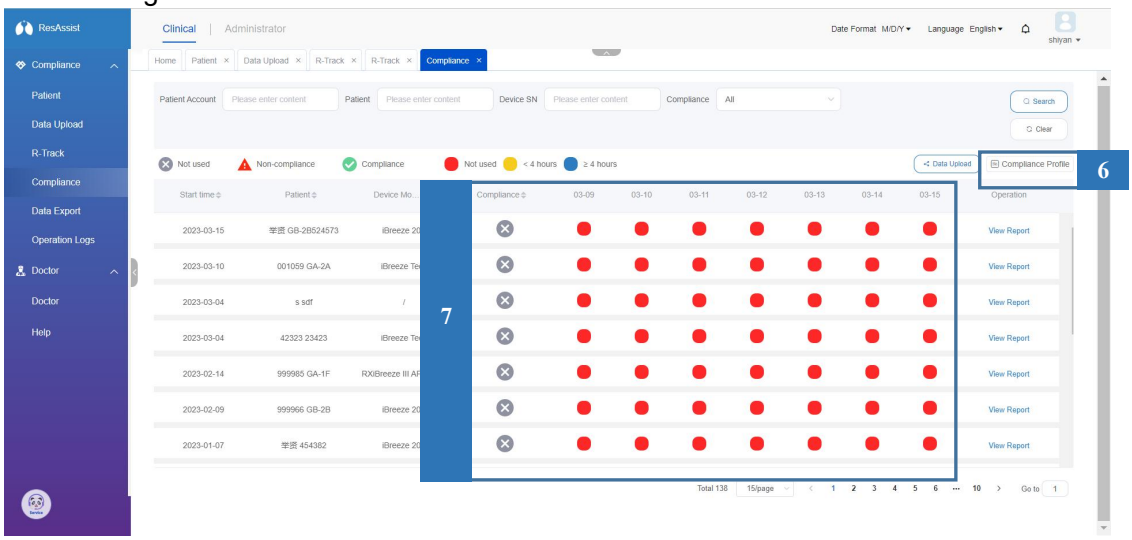


3. The rules for each option and field in the dependency list are as follows:

2	Data Interval	compliance calculation interval, with options for last 7 days, last 30 days, 90 days prior to activation date, customized
3	Compliance	compliance was labeled as Compliance (green) if the patient's hours of use exceeded 4 hours for days ≥ 70% or more of the days in the compliance Calculation Interval, and vice versa in Non-Compliace (yellow). If the patient did not use the device

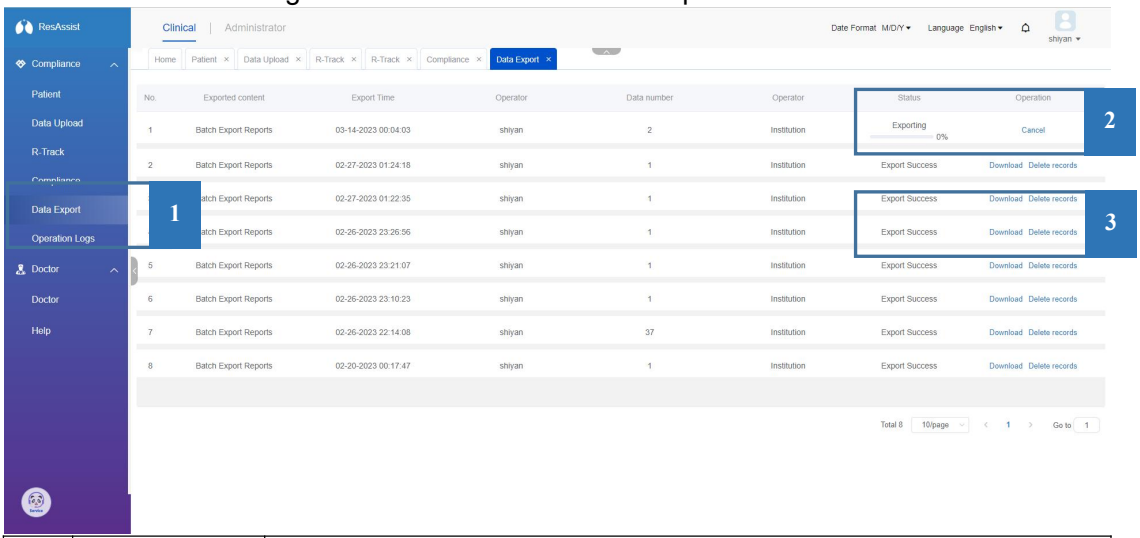
		during the compliance calculation interval, it was labeled as Not Use (red)
4	Used Day / Rate	Days of use, showing the number and percentage of days the patient has used the device during the current compliance calculation interval.
5	Eff Day / Rate	Effective days, showing the number and percentage of days in which the patient's device was used for more than 4 hours during the current compliance calculation interval.

4. In the compliance list, you can click Compliance in last 7 days to view the patient's daily compliance performance for the last 7 days of the current date. The icon meanings are consistent with the rules above.



3.8 Data Export

1. You can manage the history of batch exported patient reports. Click the Data Export item in the left navigation bar to access the data export list.



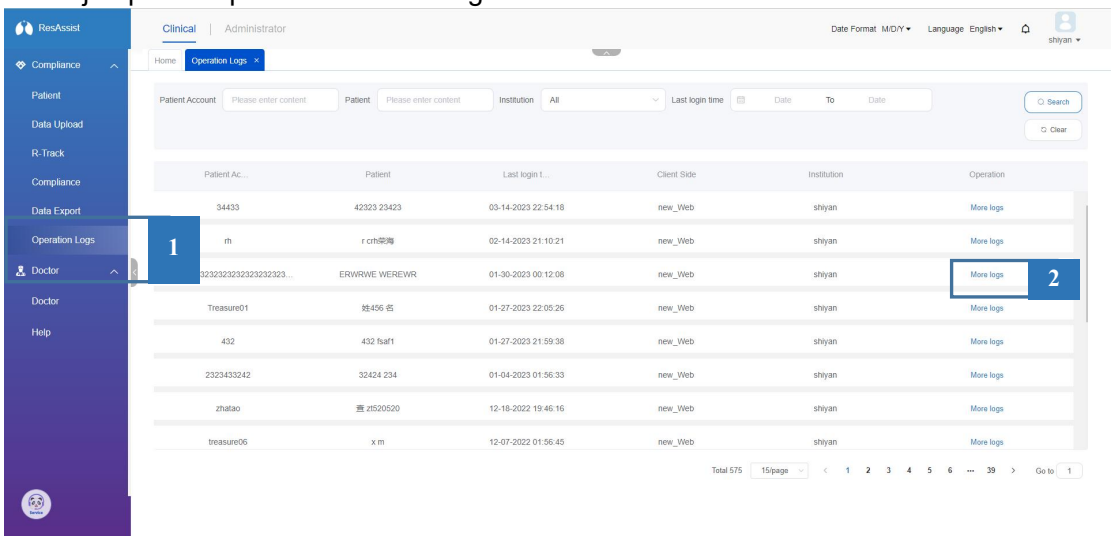
2	Exporting	Status labeled Exporting, real-time display of the progress bar; Operation can be canceled.

3	Exported	Status labeled Export Success / failure, Operation optional re-download / delete

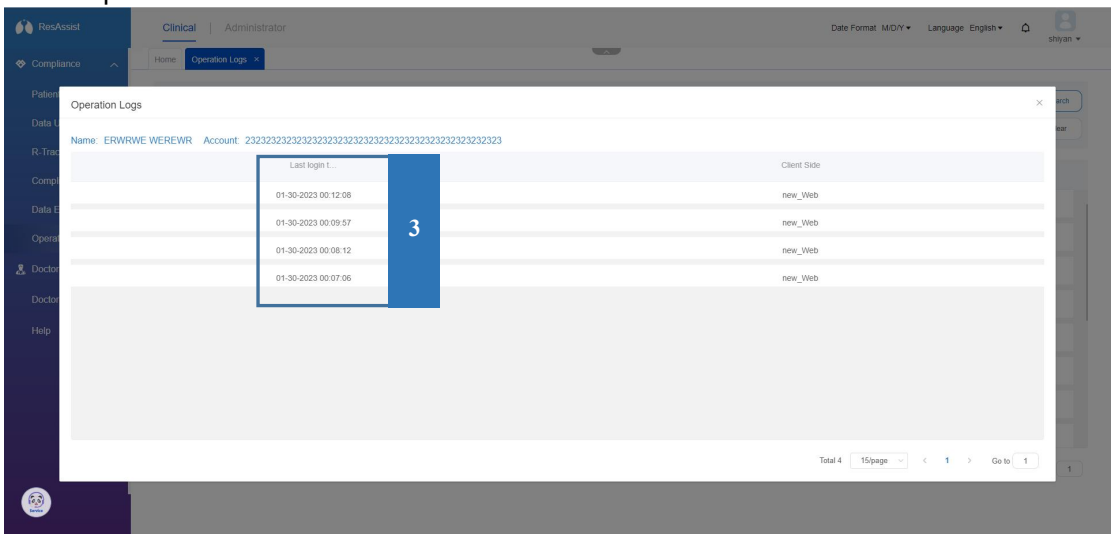
* Exported reports are valid for download for 3 months, if more than 3 months, the report needs to be re-exported for download.

3.9 Operation Logs

1. You can view patient login logs. Click Operation Logs in the left navigation bar to view a list of patient login logs. The list shows the last login time, login port, and institution for each patient. Click More Logs in the action bar on the right side of the list to jump to the patient's detailed log window.

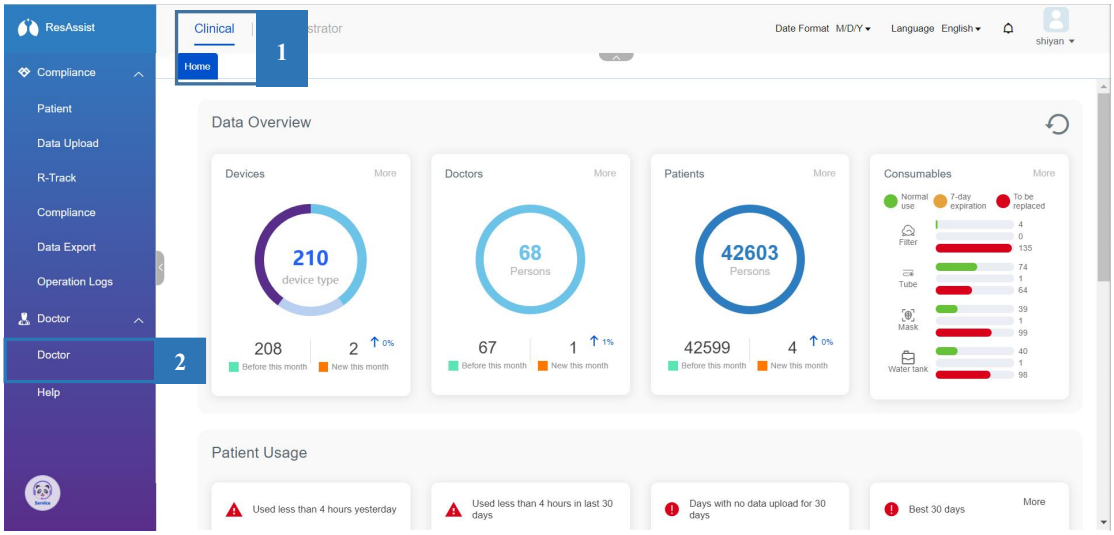


3. The Detailed Records window will display the historical login logs and login ports for this patient.

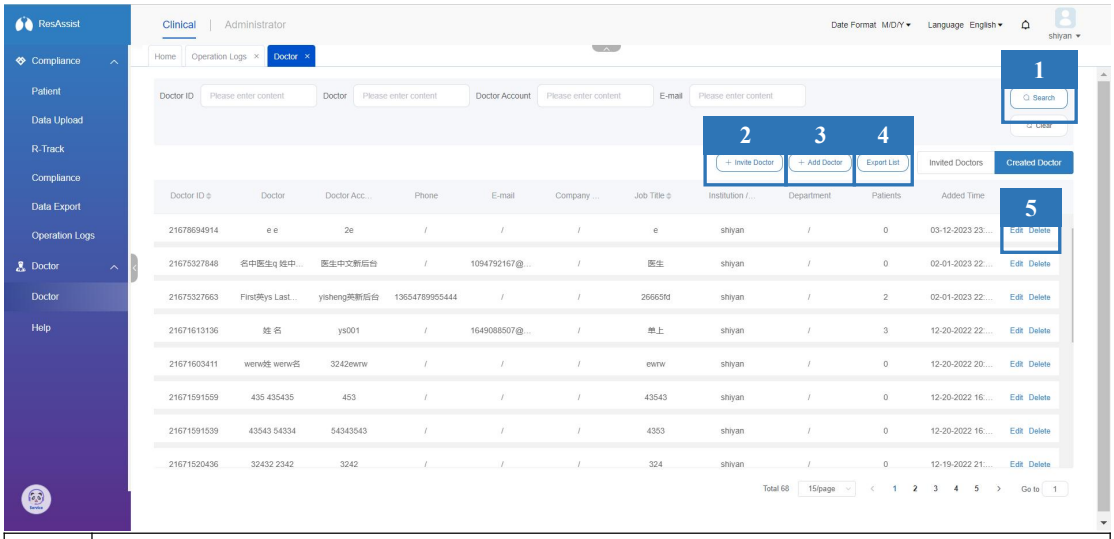


3.10 Doctor

1. You can access the list of doctors by selecting the Clinical tab at the top and clicking on the Doctor item in the left navigation bar.



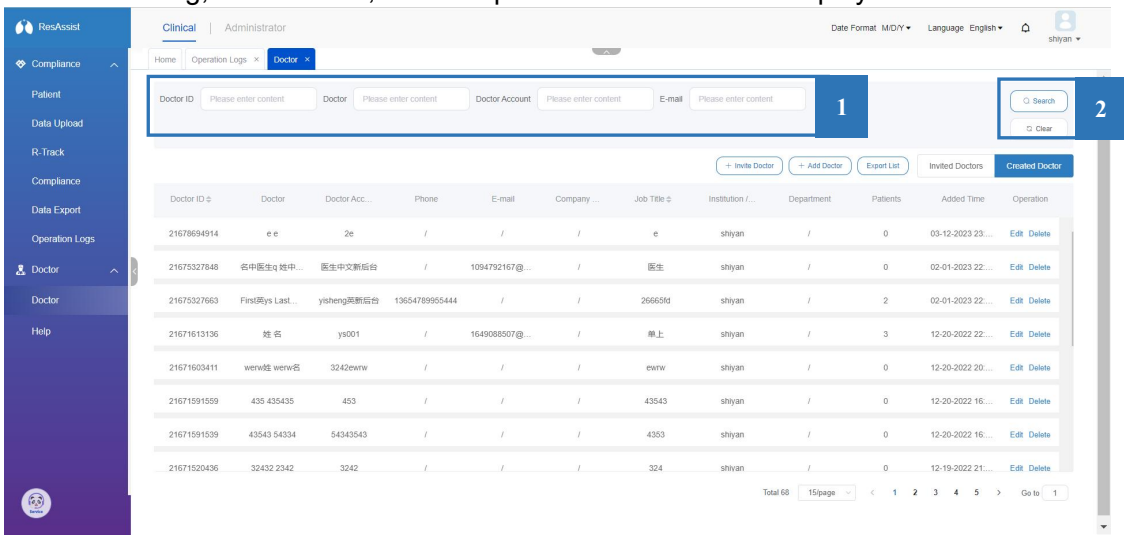
2. The Doctors list allows you to complete a series of actions related to doctors as follows:



1	Search for a doctor by search term
2	Invite Doctors
3	Add Doctor
4	Export doctor list
5	Edit, Delete Doctors

3.10.1 Search for doctors

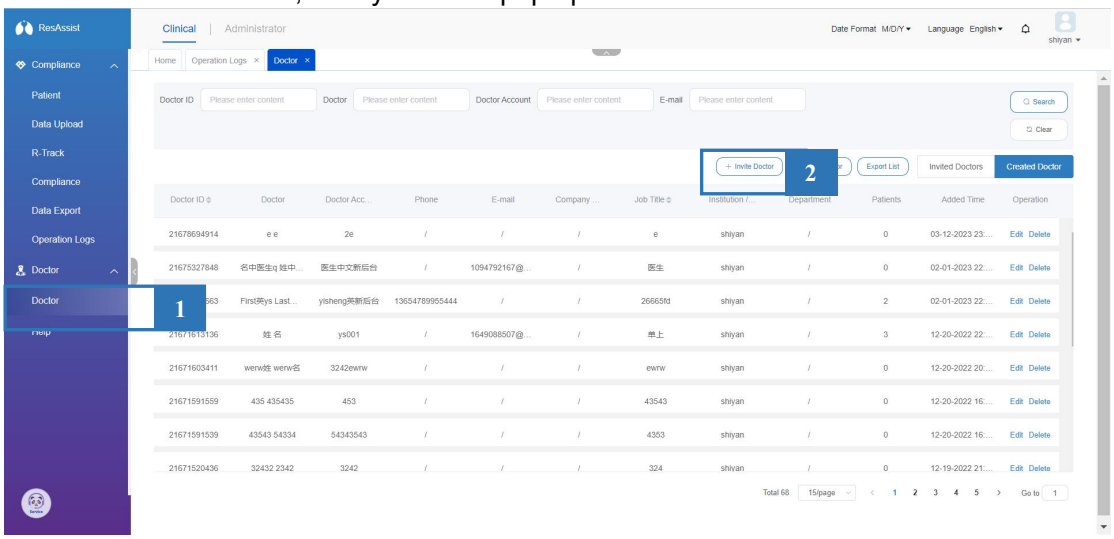
In the Doctors list, you can set the search criteria through the option box at the top. After setting, click Search, and the qualified doctors will be displayed in the list.



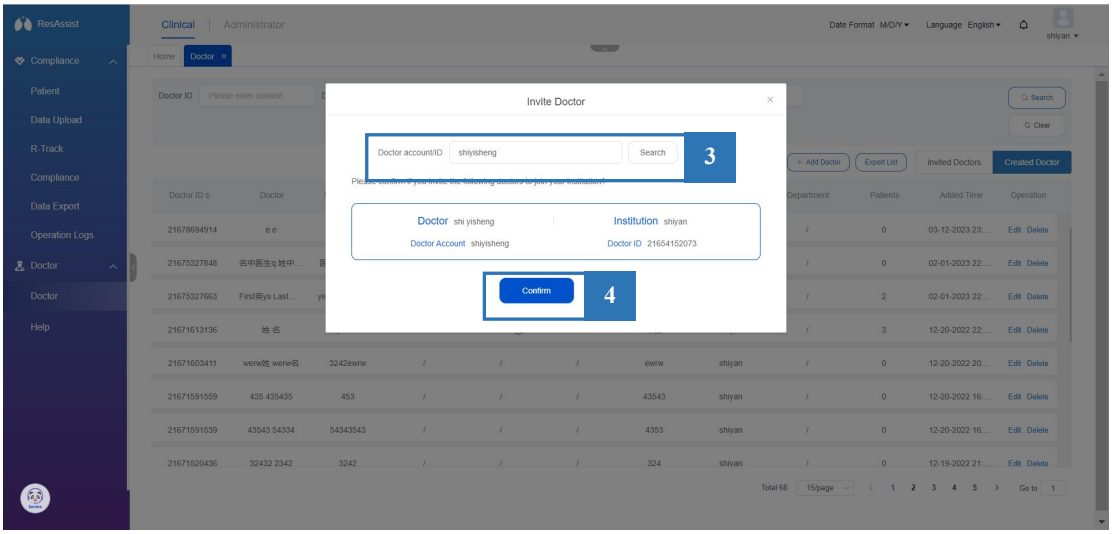
3.10.2 Inviting doctors

3.10.2.1 Institution invites doctors

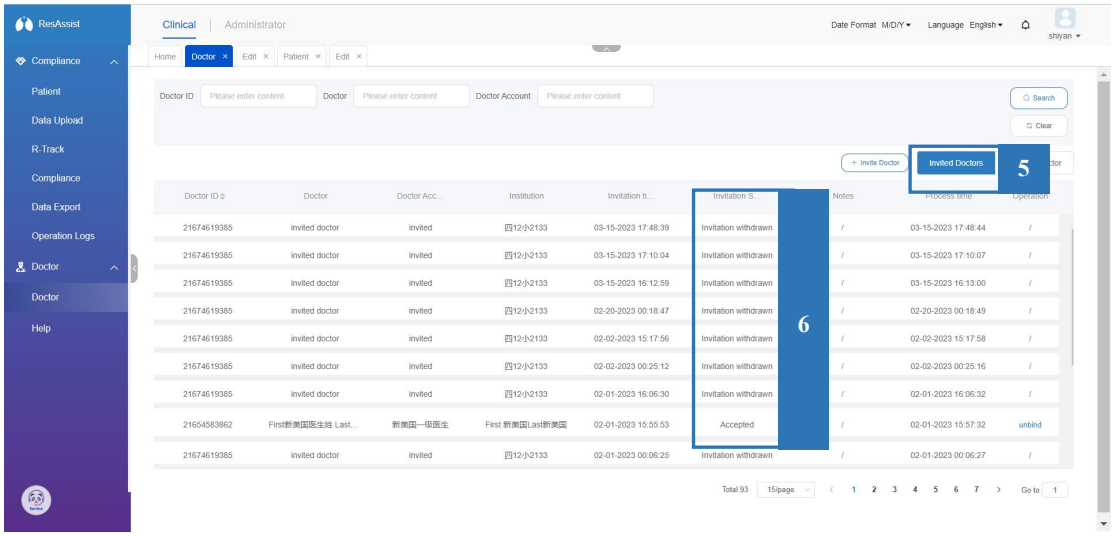
1. In the Doctor List, in addition to the doctor you are currently managing, you can also invite doctors from other institutions to co-manage your patients. When you click the Invite Doctor button, the system will pop up the doctor search window.



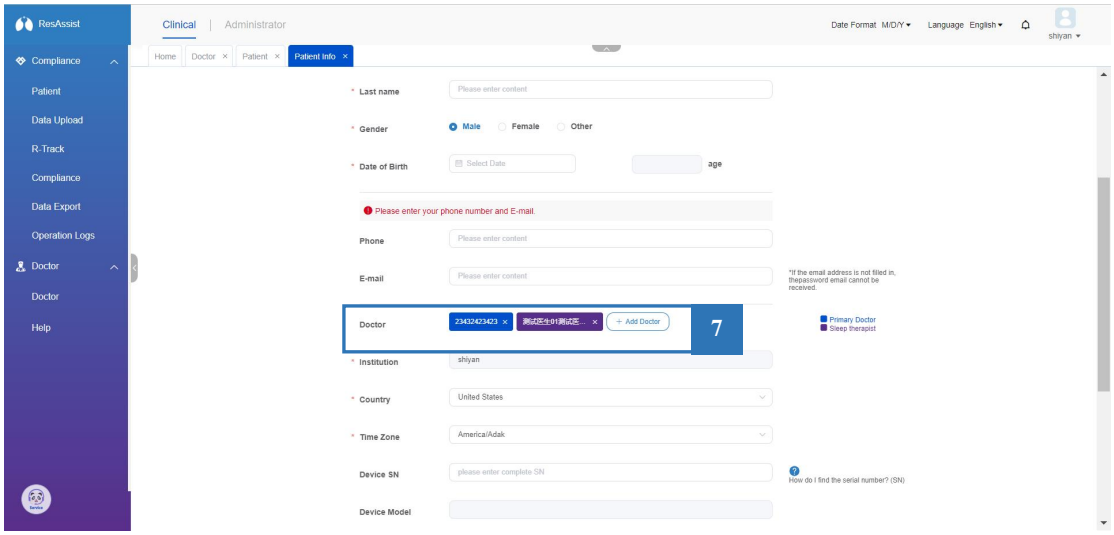
2. You can enter the doctor's account/ID in this window to find the doctor users associated with other institutions. When the system successfully retrieves the institution's target invited doctor, the institution can click Confirm to confirm the invitation.



4. After you have successfully sent an invitation to a doctor, please wait patiently for the doctor's processing result. After the doctor accepts or rejects the invitation from the institution, the institution can check the processing result of the doctor in Invited Doctor of Doctor List.

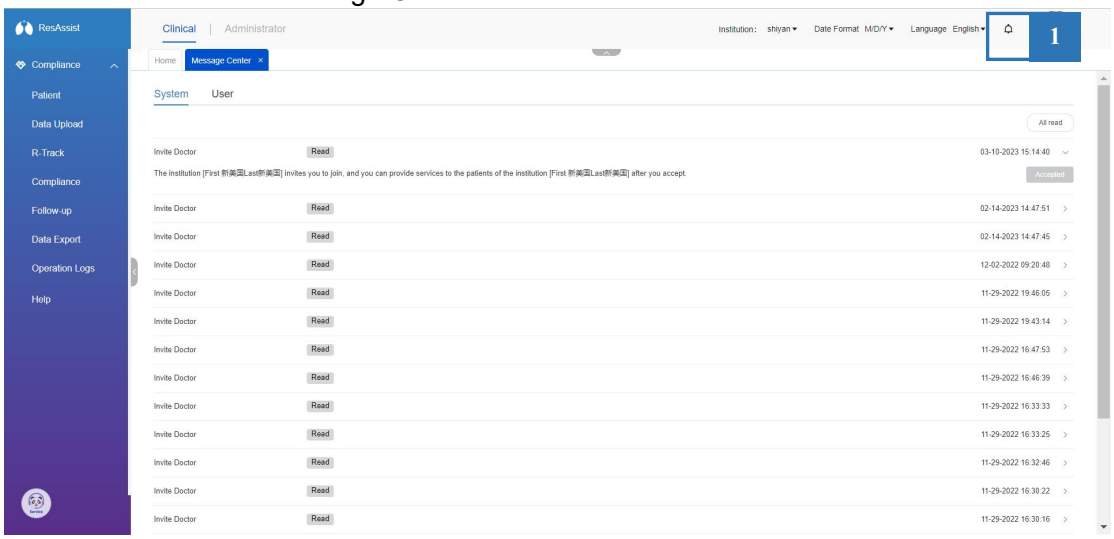


5. If the doctor accepts your invitation, you can bind the patient to this doctor when you add/edit the patient; when the doctor logs in to ResAssist, he/she will be able to manage the patients bound to the institution.

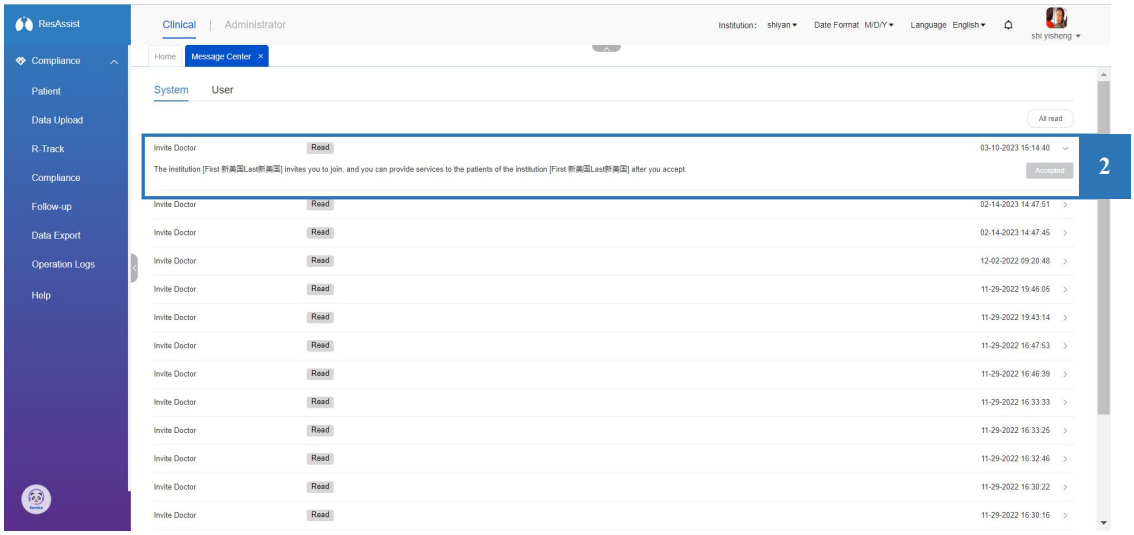


3.10.2.2 Doctors accepting institutional invitations

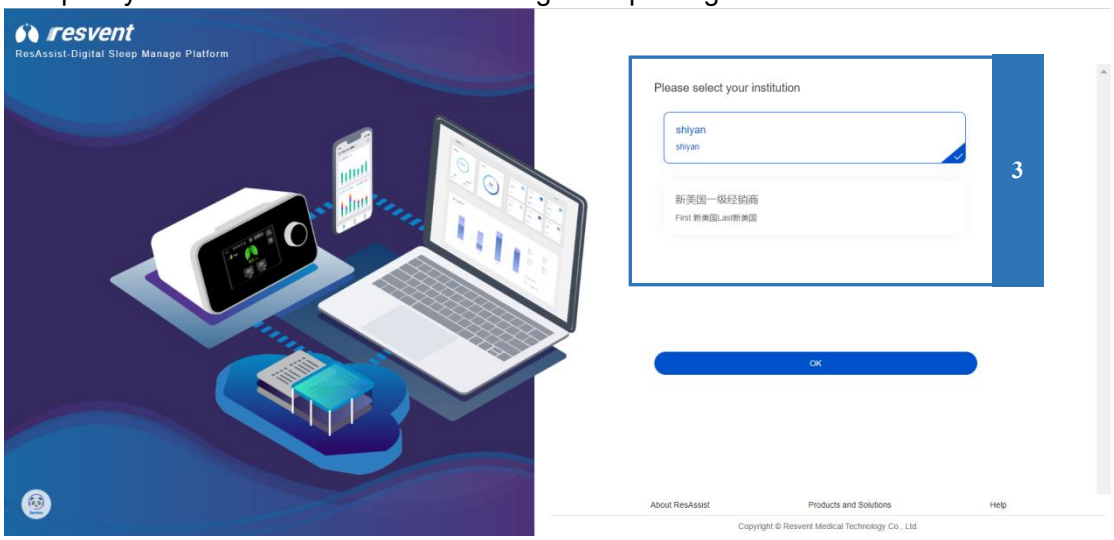
1. doctor users logged into ResAssist can process invitation messages from institutions in the Message Center.



2. Click the bell button on the right side of the top navigation bar to access the message center and view invitation messages from the institution. After viewing the invitation message from the institution, the doctor can accept or decline the invitation. Regardless of whether the doctor accepts or declines the institution's invitation, the result will be synchronized in the form of a message to notify the institution.

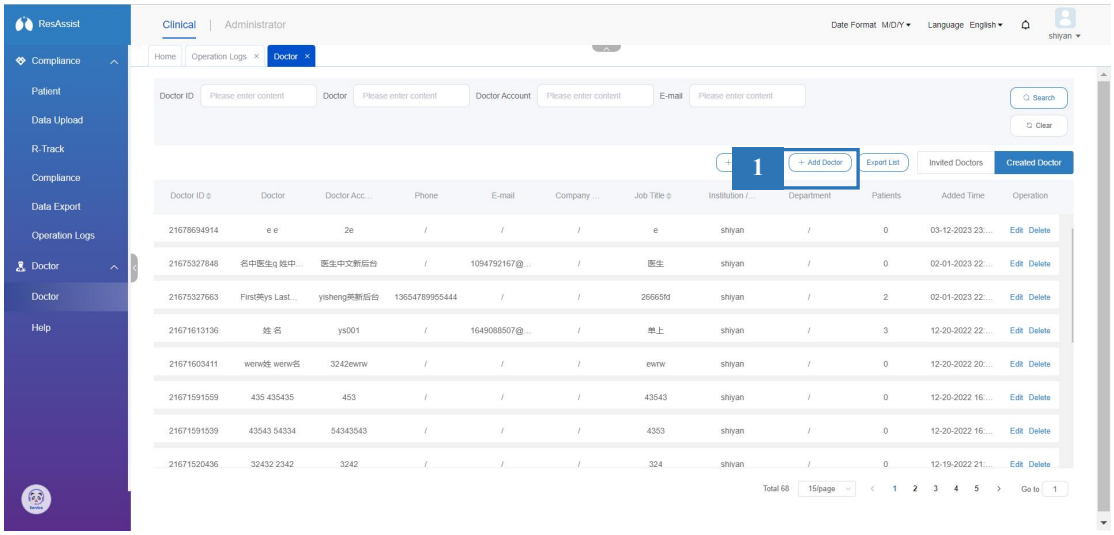


4. If the doctor accepts the institution's invitation, the doctor will need to select a different institution to enter when he/she logs into ResAssist again. The doctor will be able to manage the patients of the selected institution at that time. Doctors can also quickly switch between institutions using the top navigation bar.

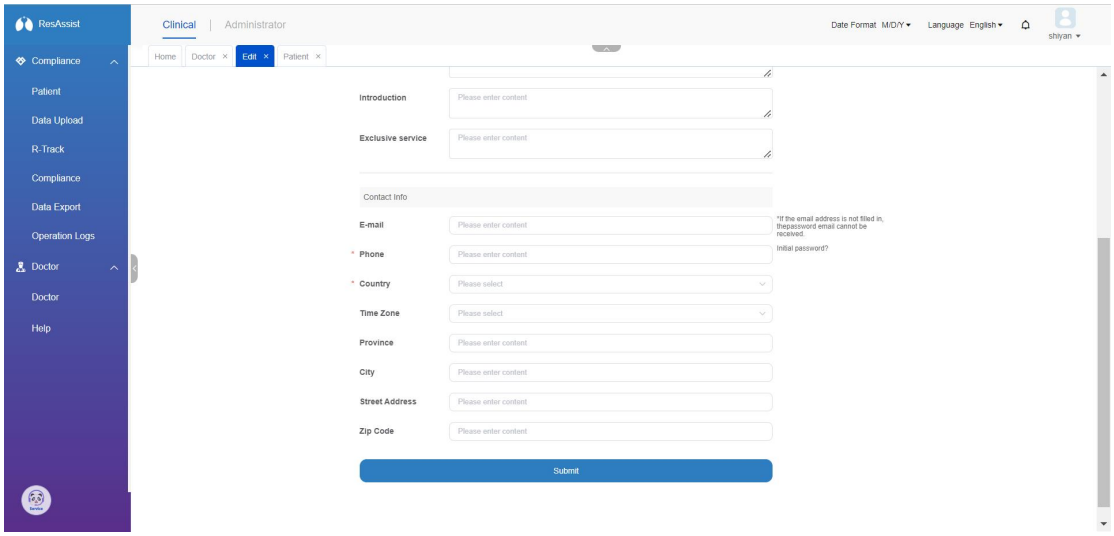


3.10.3 Add Doctor

1. In the Doctors list, institutions can click Add Doctor to access the Add Doctor form.

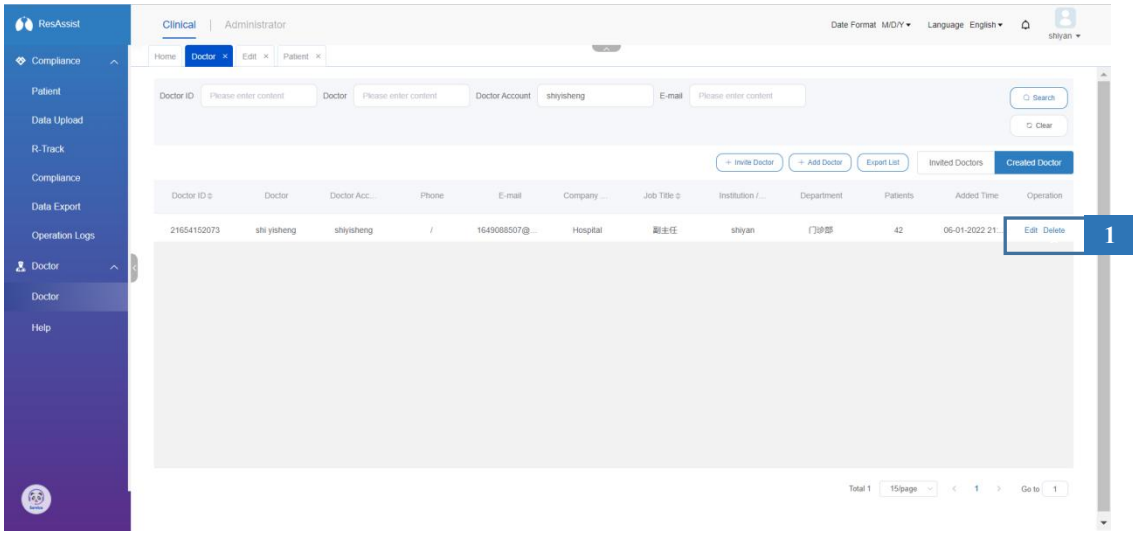


2. Fill in the Account / Basic information, then click Submit to complete the addition of doctors. The default password for the doctor is the last 6 digits of the cell phone number.

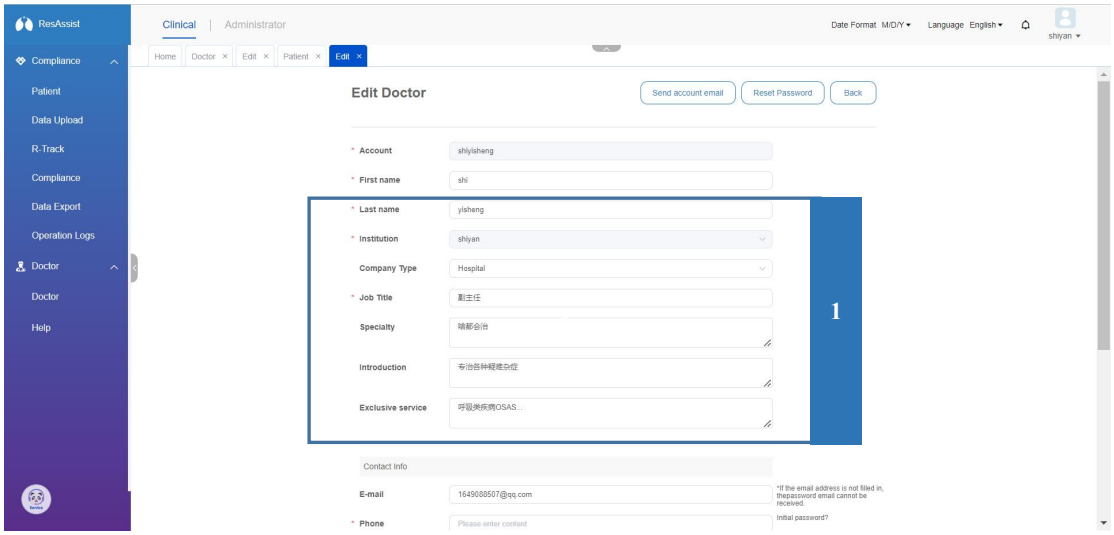


3.10.4 Edit Doctor

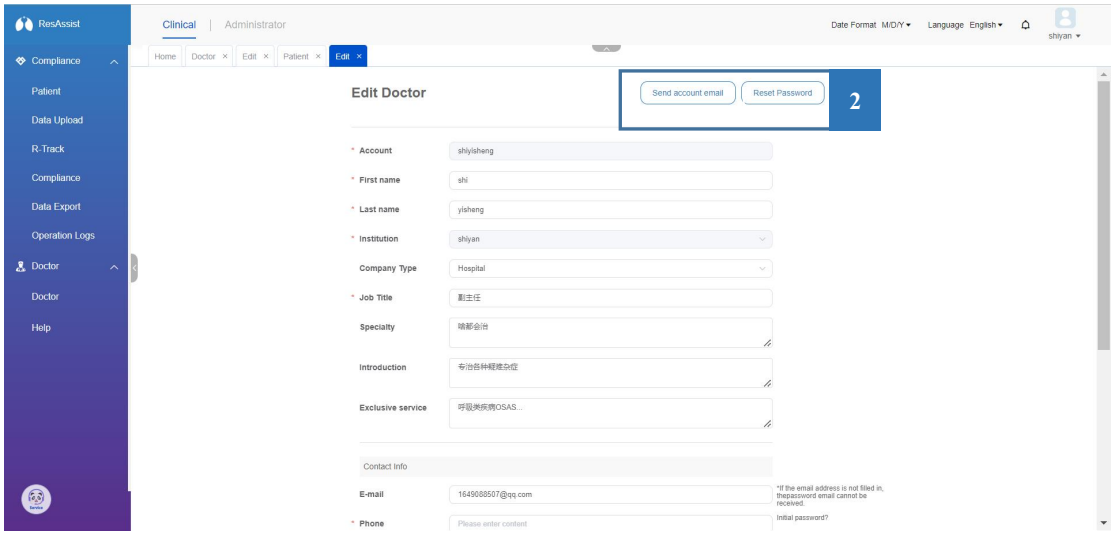
1. You can edit the doctor information in the doctor list.



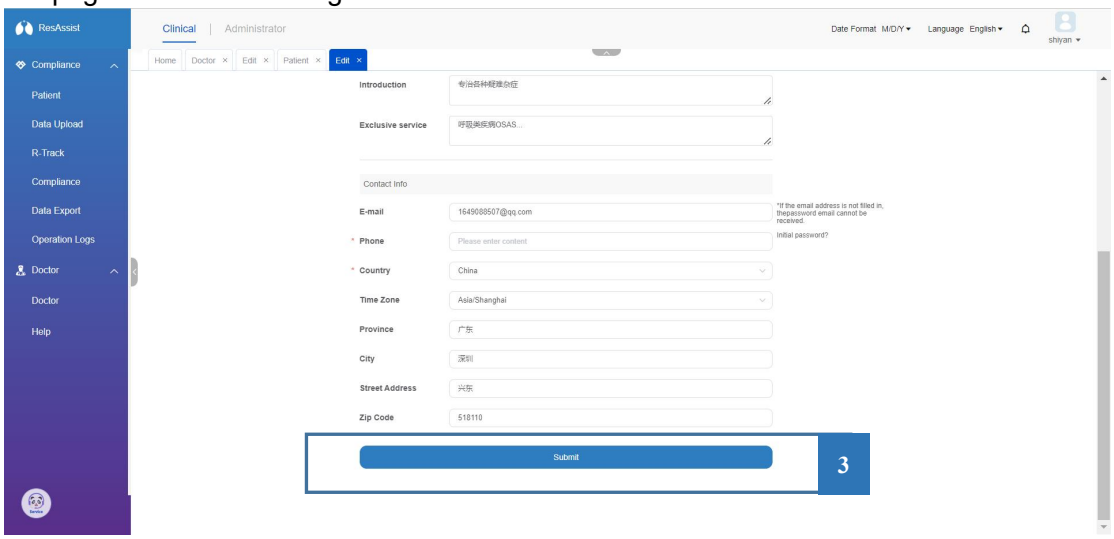
2. Click Edit to enter the doctor information editing interface. You can edit the doctor's Basic / Contact information.



3. Meanwhile, in this interface, you can click Reset Password / Send Account Email at the top to reset the password of the doctor's account or send the current doctor's account information to the doctor's email address.

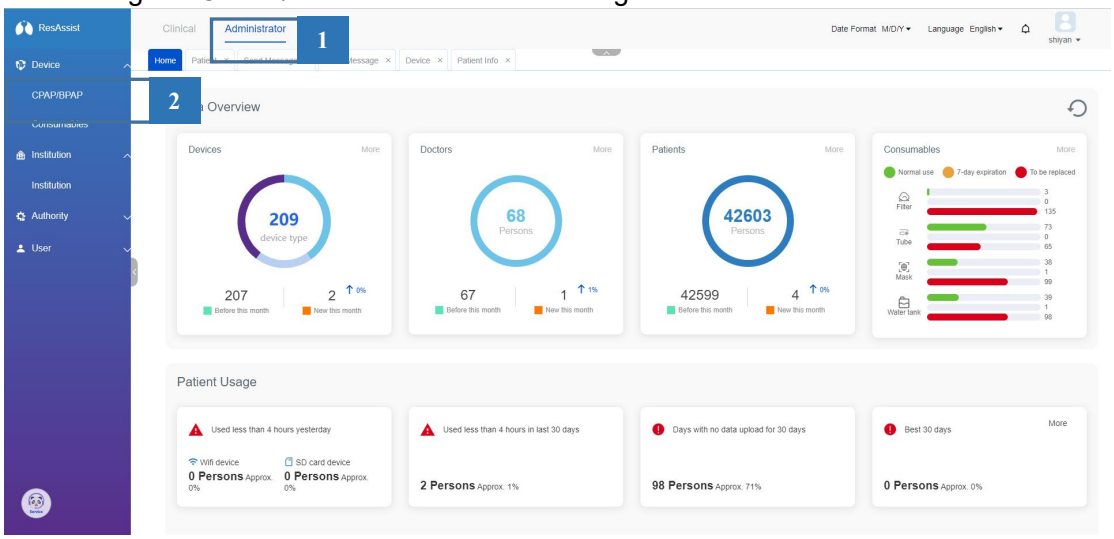


4. Once the patient information has been modified, click Submit at the bottom of the page to save the changes.

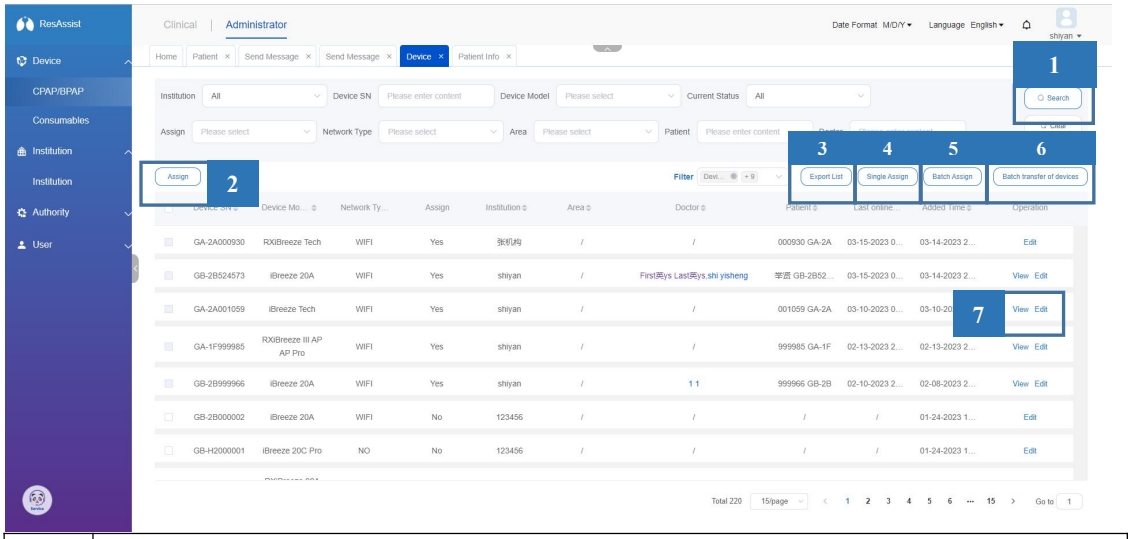


3.11 CPAP / BPAP

You can access the device list by selecting the Administrator tab at the top and clicking the CPAP / BPAP item in the left navigation bar.



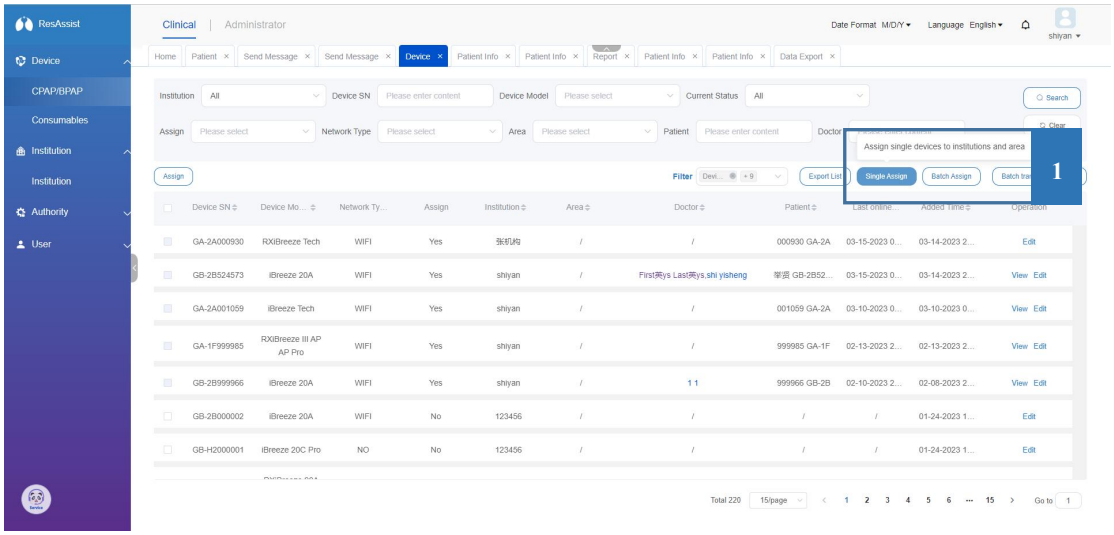
2. The device list allows you to complete a series of actions related to the device as follows:



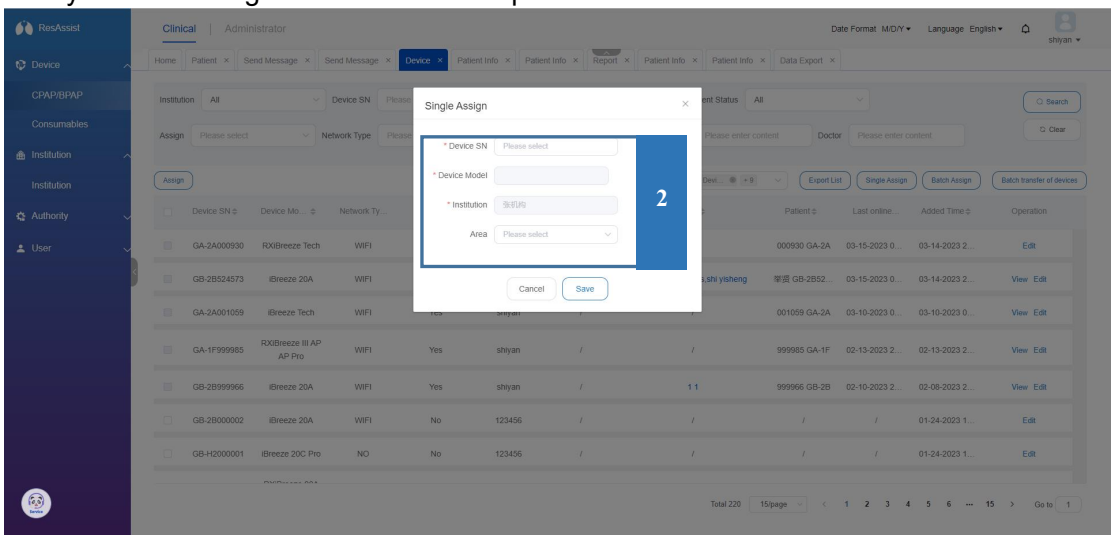
1	search patients based on search terms
2	List Assigned Devices
3	List Export
4	Assign devices individually
5	Batch Assign Devices
6	Batch transfer devices
7	Viewing and editing devices

3.11.1 Individual distribution devices

1. You can assign a single device to a subordinate institution through Single Assign in the Device List. click Single Assign and the system will bring up the Single Assign window.

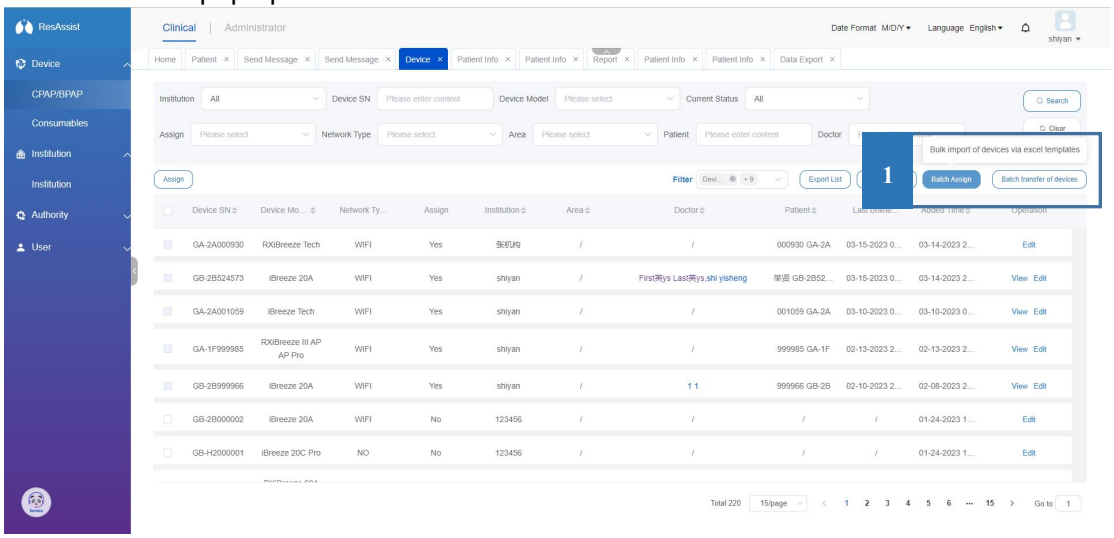


2. Select the assigned device SN and the target institution or area, and the system will automatically obtain the corresponding model of the device. After clicking Save, the system will assign the device to the specified institution or area.

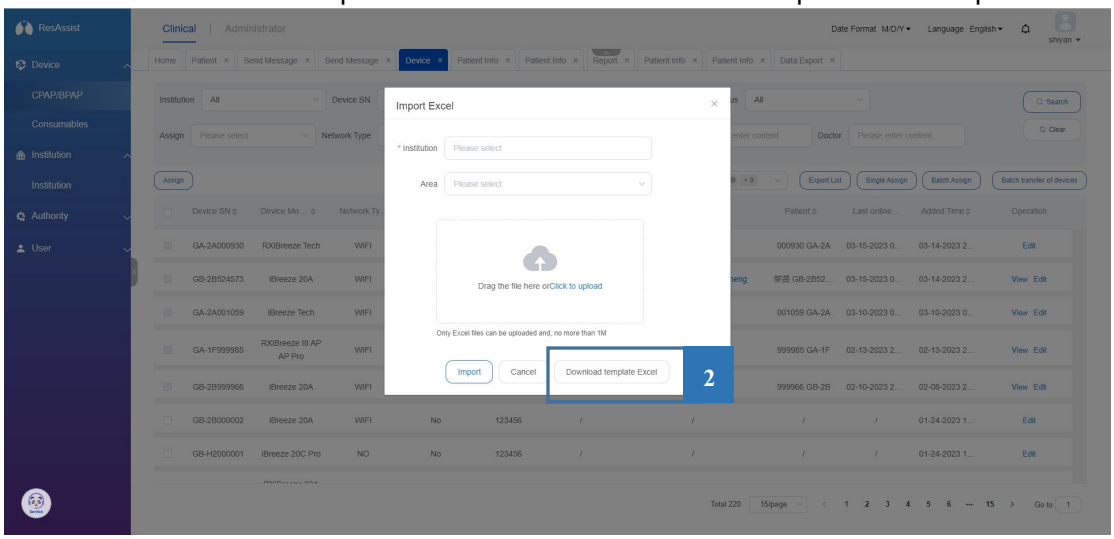


3.11.2 Bulk allocation of devices

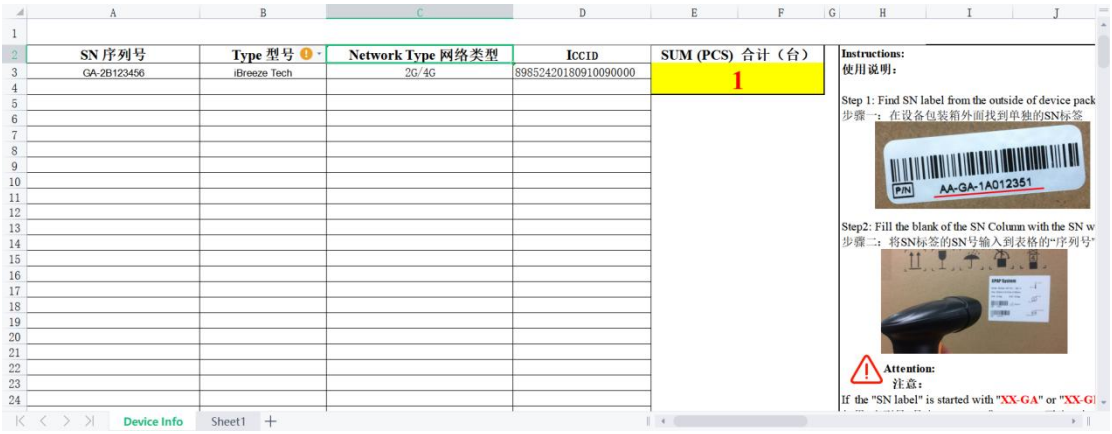
1. An institution can assign multiple devices at once to a subordinate institution through Batch Assign in the Device List. Click Batch Assign and the Batch Assign window will pop up.



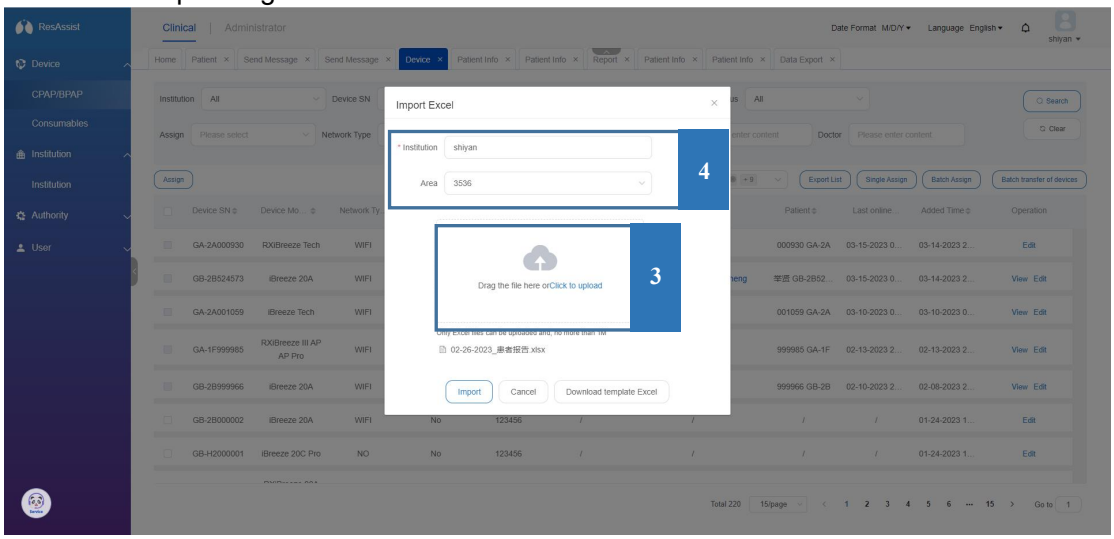
2. Click Download Template Excel to download the batch import Excel template.



3. The institution needs to enter the device information according to the template content, which contains: device SN, Model, Network Type, ICCID.

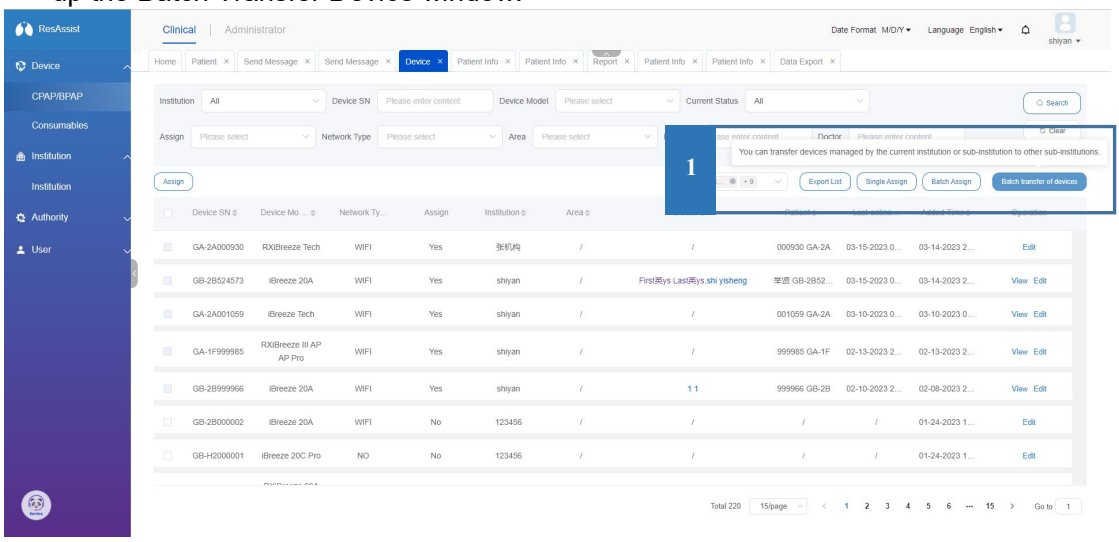


4. After the institution completes filling in the template content, save it as an Excel file and return to the interface of Batch Import device window. Click the blank space in the picture to upload the completed Excel file, and select the institution and area for device target allocation. after uploading the Excel file and selecting the target allocation institution and area, click Import to allocate the device SN filled in Excel to the corresponding institution and area.

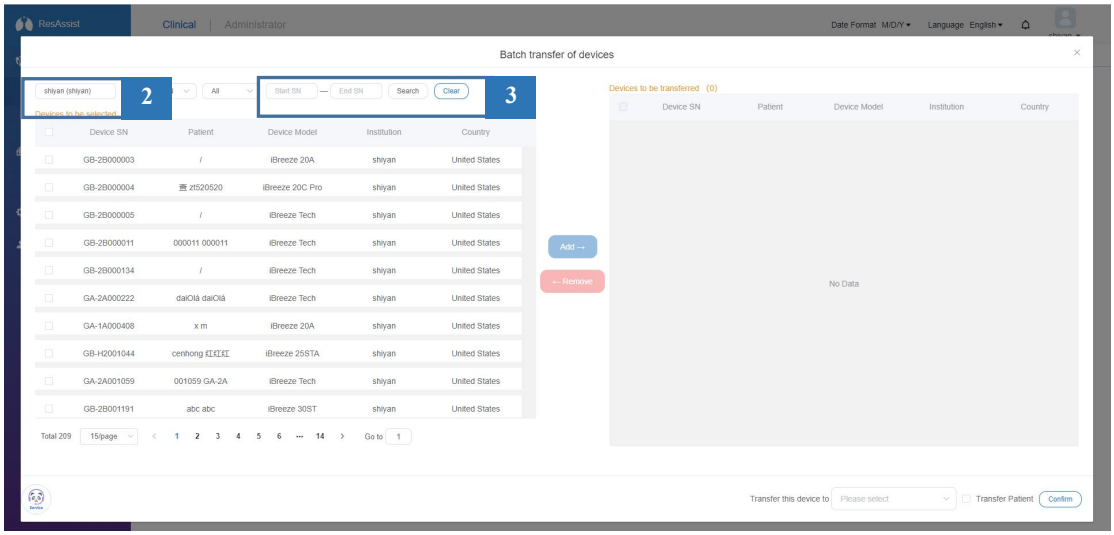


3.11.3 Bulk transfer devices

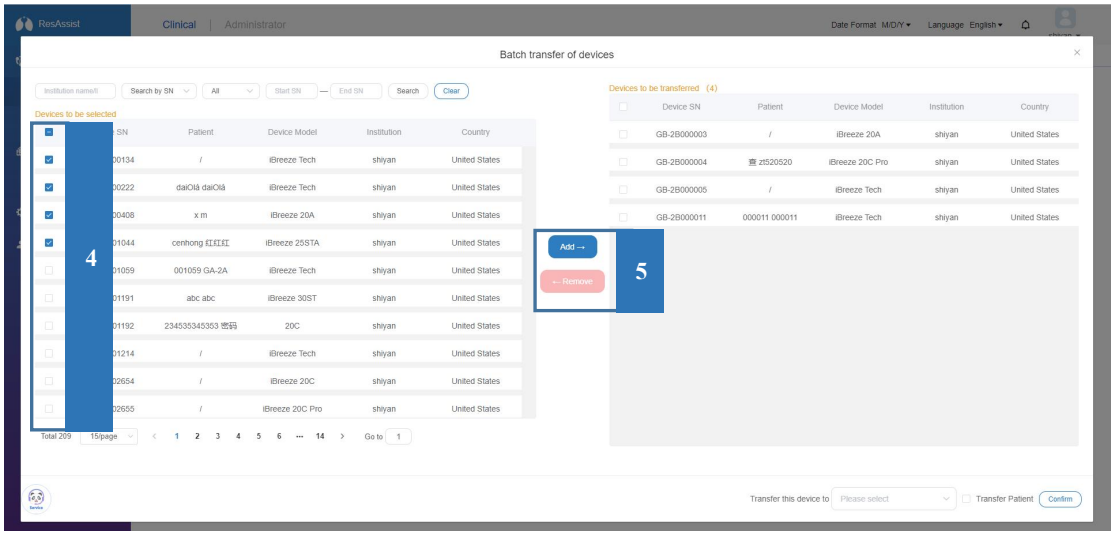
1. You can use Batch Transfer Device in the device list to batch transfer patients and devices managed by you or devices managed by a lower level institution to a lower/superior level institution. Click Batch Transfer Device in the Device List to bring up the Batch Transfer Device window.



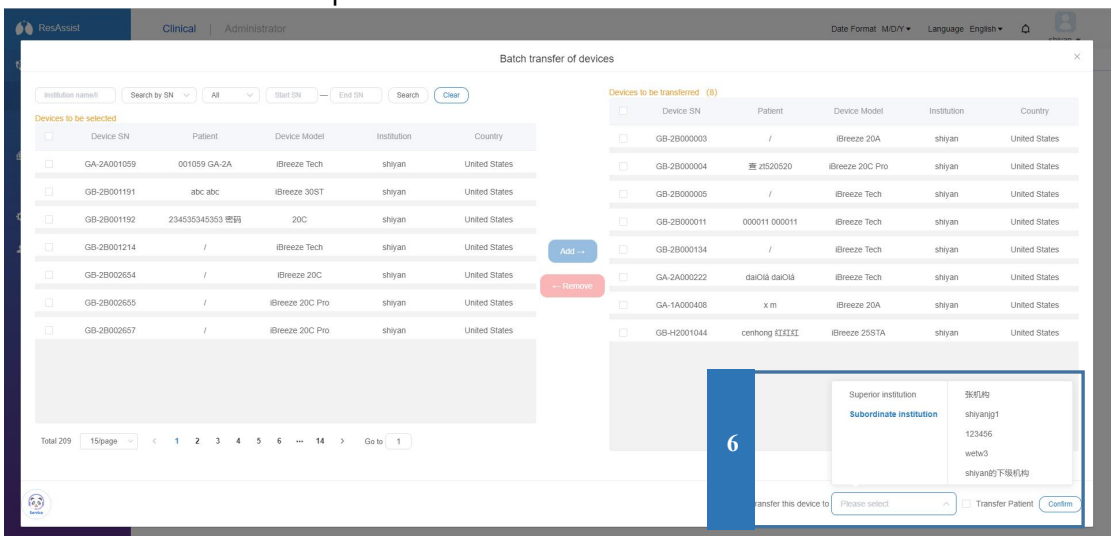
2. You need to select the institution you want to transfer the device to, and the list of transferable device on the left will display the transferable device according to the currently selected institution. You can search the corresponding device through the search item on the top, and the search result will be displayed in the list of transferable device on the left.



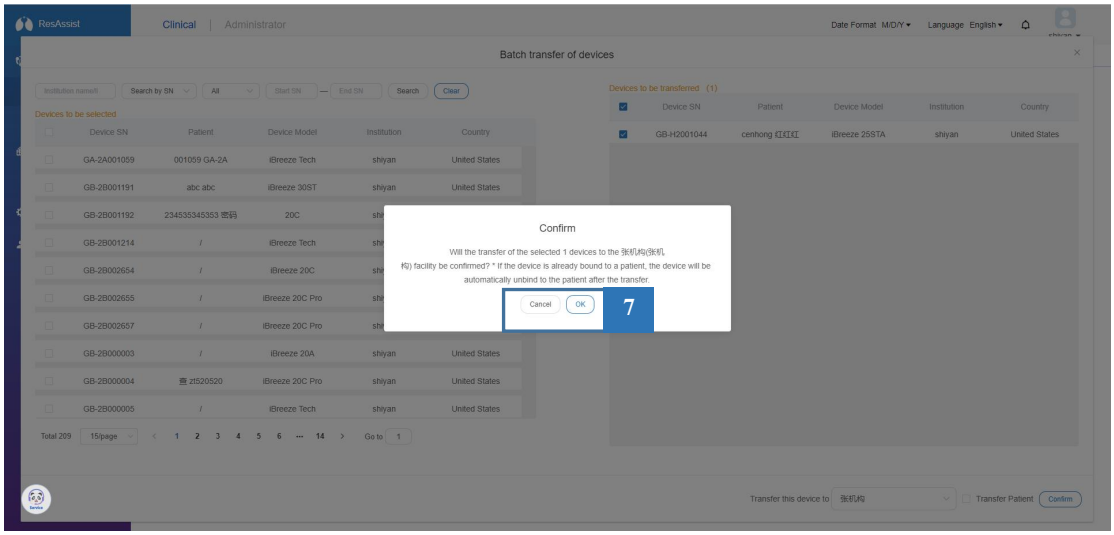
3. Check the devices in the left list and click Add to add the selected devices to the right transferable list. Check the devices in the right list and click Remove to move the selected devices back to the left transferable list.



4. When you move the target transfer device to the right side of the list to be transferred, click Transfer Device To at the bottom of the window to select the target transferring institution, and the option is the superior/subordinate institution of the current institution. At the same time, you can check Transfer Patient, after checking the box, the patients bound to the device will be transferred at the same time when the device is transferred; if Transfer Patient is not checked, the system will automatically unbind the associated patients when the device is transferred.



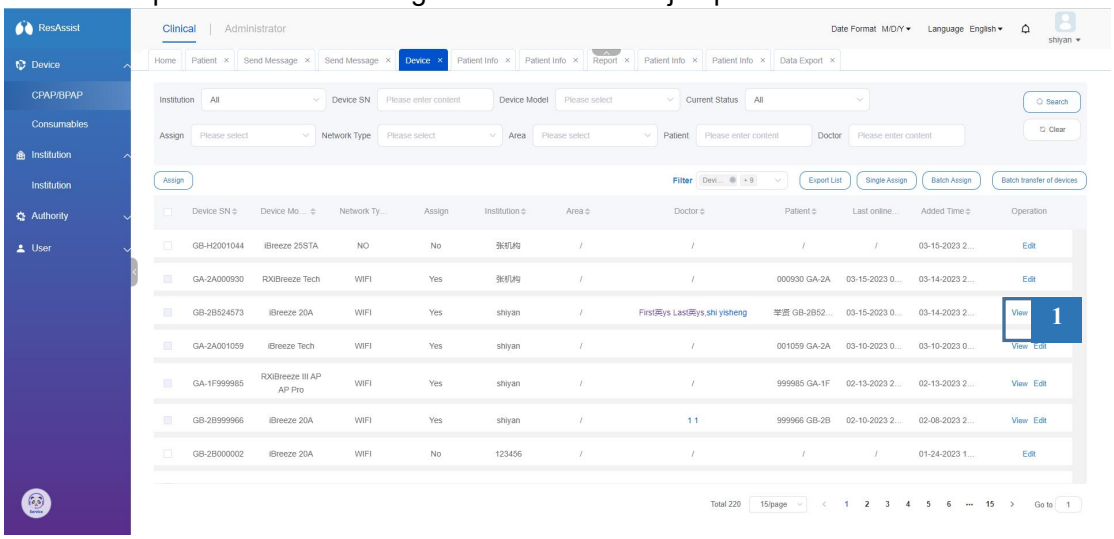
5. When the selection is complete, click Confrim and a confirmation window will pop up, click OK to transfer the device/patient in the pending transfer list on the right to the target transferring institution.


ResAssist
Clinical | Administrator
Batch transfer of devices
Confirm
Will the transfer of the selected 1 devices to the 张机构(张机构) facility be confirmed? * If the device is already bound to a patient, the device will be automatically unbind to the patient after the transfer.
Cancel
OK
7

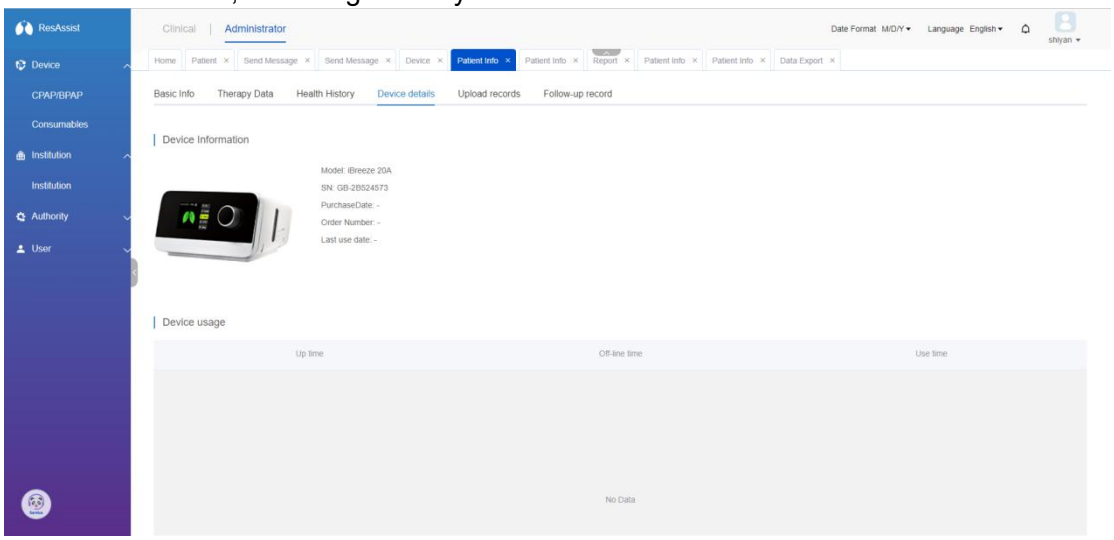
3.11.4 Viewing and editing devices

3.11.4.1 View Device

1. In the Device list, you can view the information of the managed devices. Click View on the operation bar on the right side of the list to jump to the device details interface.

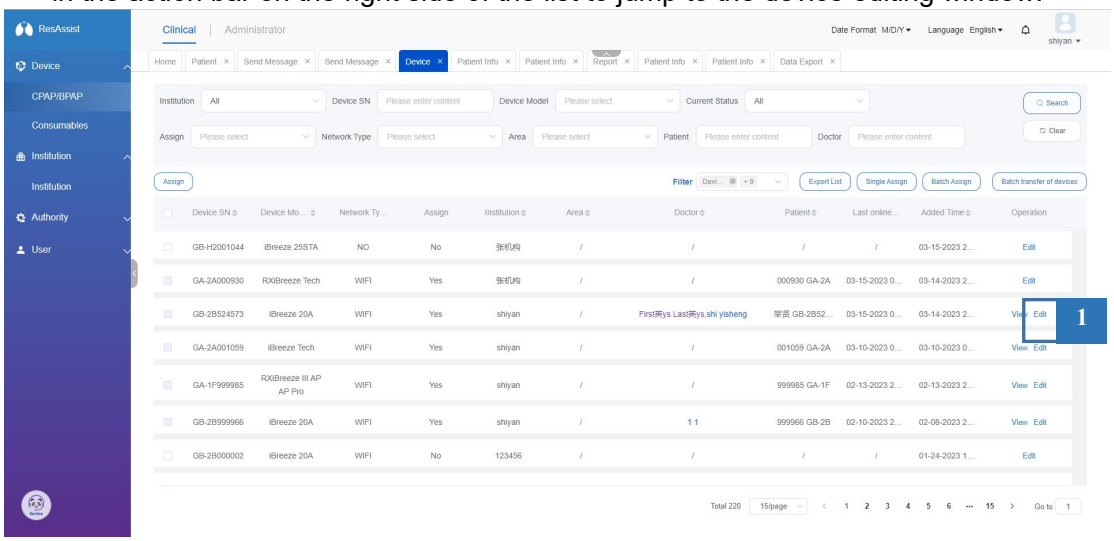


2. The device details page displays information such as the serial number column, model number, and usage history of the device.



3.11.4.2 Editing device

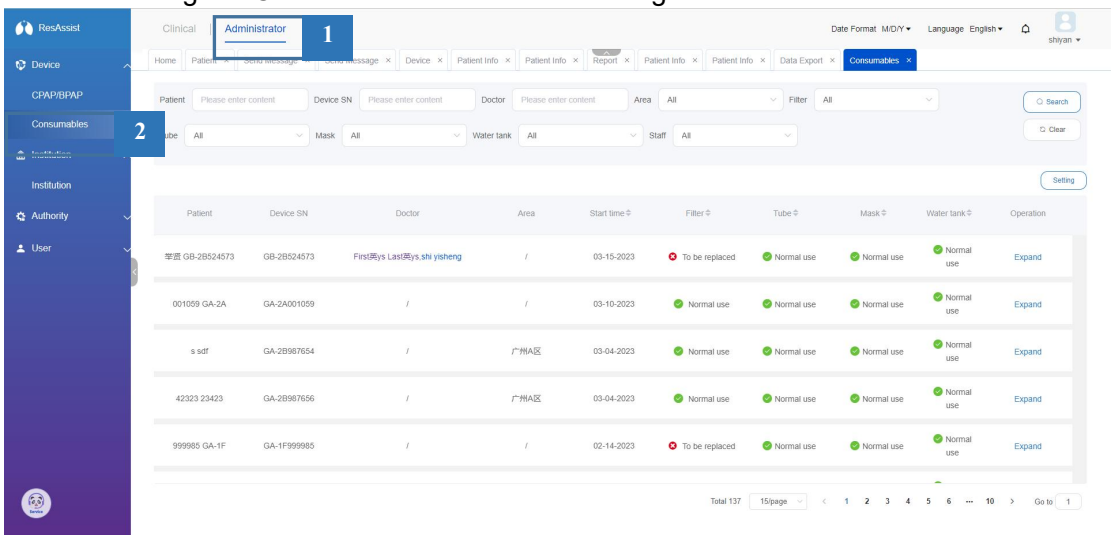
1. In the Device list, you can edit the information of the devices you manage. Click Edit in the action bar on the right side of the list to jump to the device editing window.



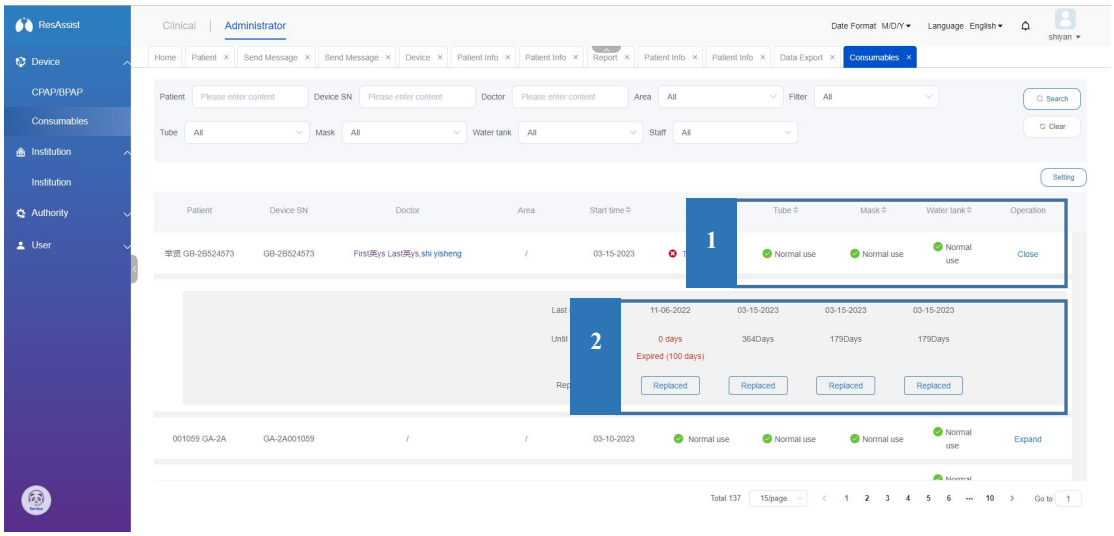
2. The Device Edit window allows the institution to modify the area to which the device belongs. Click Save to save it.

3.12 Consumables

1. You can access the list of consumables by selecting the Administrator tab at the top and clicking the Consumable item in the left navigation bar.



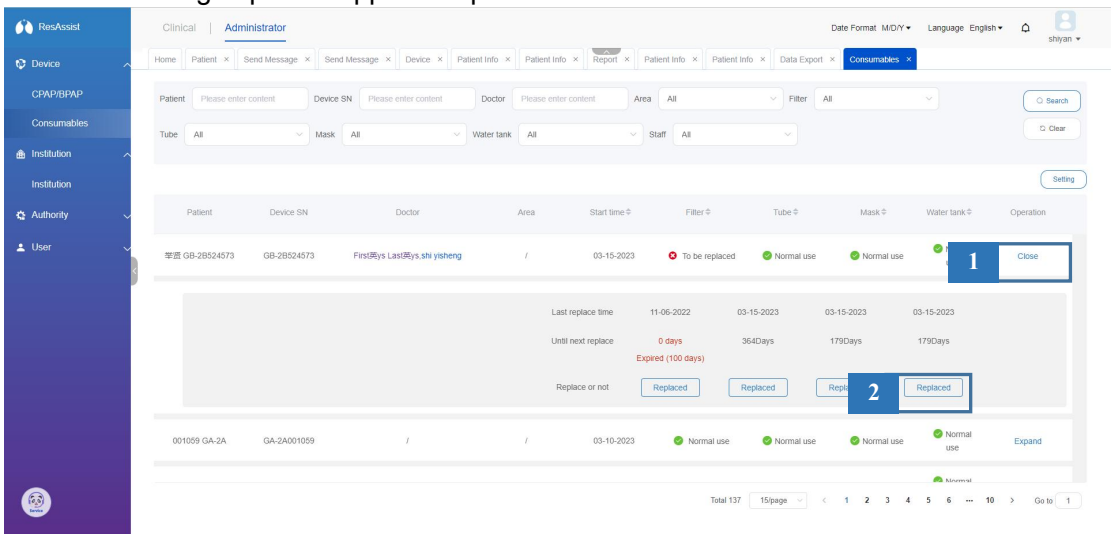
2. In the Consumables list, you can view the patient's current status for each type of consumable, which will be calculated in real time based on the patient's device activation date, replacement date, and the consumable replacement cycle set by the institution. The consumable status is described below:



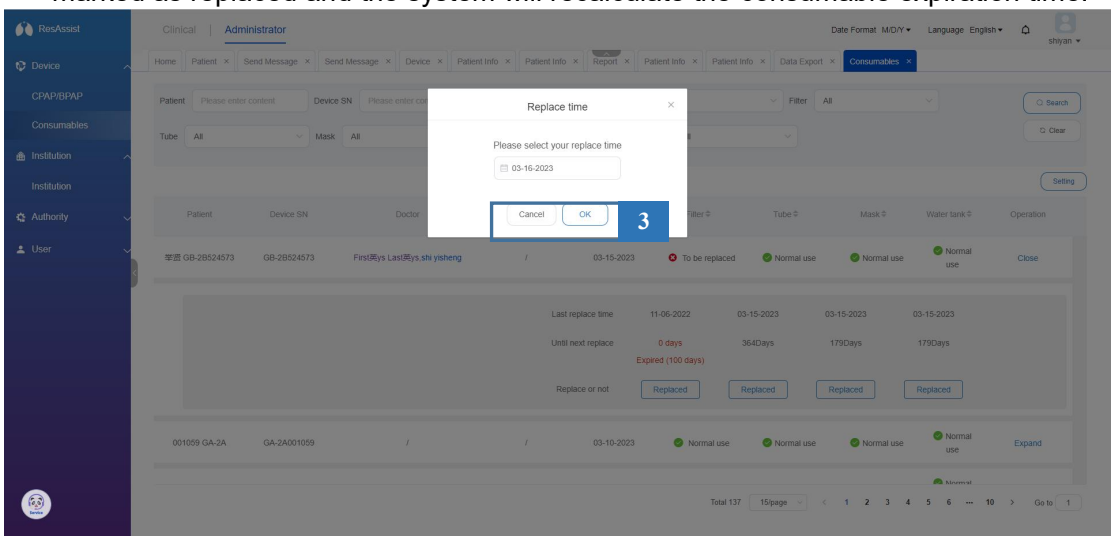
1	Consumables Status: the current use status of the filter wool, tubing, mask, and tank for this patient. It is categorized into normal use, 7-day expiration, and pending replacement.
2	Expand/Close: Expand/Close the patient's consumable details. The content contains the patient's current filter pads, lines, masks, and tanks with the last replacement time, remaining use time, and replaced markers.
3	Setting： Set the consumable replacement cycle. Consumable usage will be calculated based on the replacement cycle.

3.12.1 Consumables status update

1. You can update the consumable usage status by using the Replaced button in the Expand column of the consumable list. Clicking the Replaced button in the Expand column brings up the Supplies Replacement Time window.

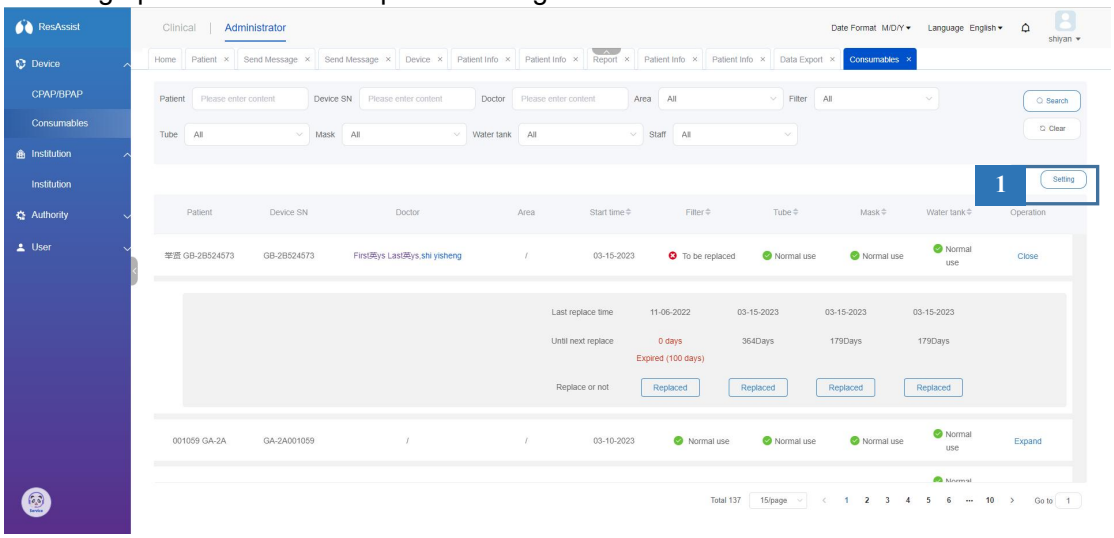


2. Select the consumable replacement time and click OK. The consumable will be marked as replaced and the system will recalculate the consumable expiration time.



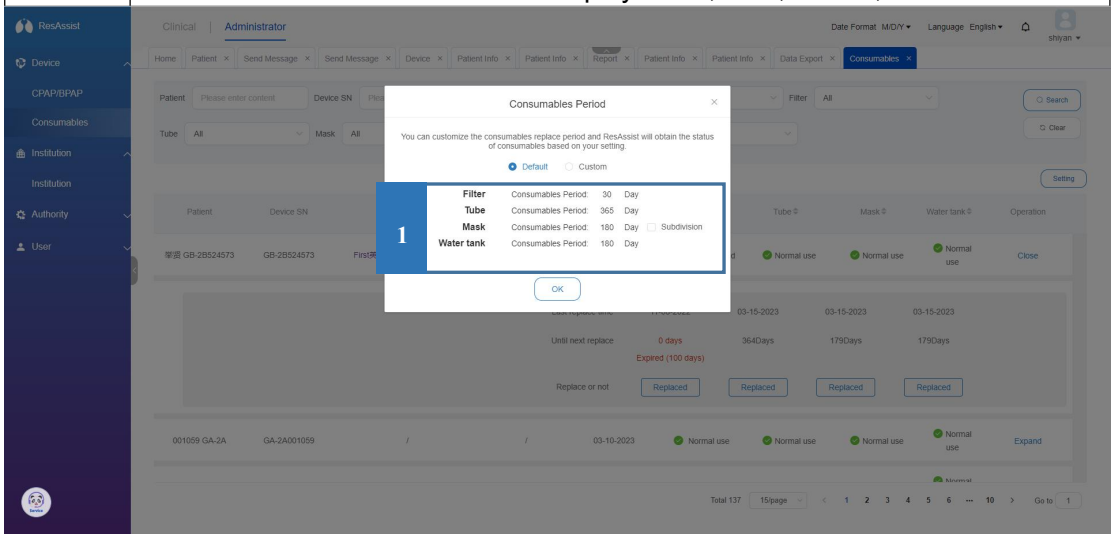
3.12.2 Consumables cycle setting

1. You can set the period for consumable lead time calculation through Setting in the consumables list. Click the Setting button on the right side of the consumables list to bring up the consumables period setting window.



2. In the Settings window, you can customize or restore the default usage period (effective days) and display mode for each type of consumables. The system supports 2 display methods, you can switch them according to your business situation. The rules are as follows:

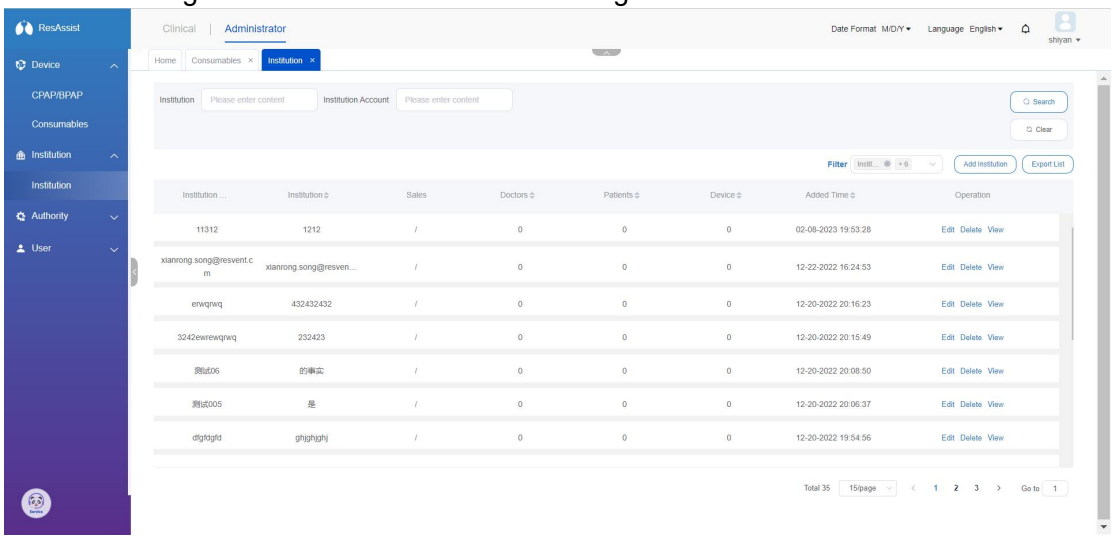
1	Check Subdivision: the list display shows filter, tube, frame, masks, elastic bands, and water tanks.
2	Unchecked Subdivision: The list displays filter, tube, masks, and water tanks.



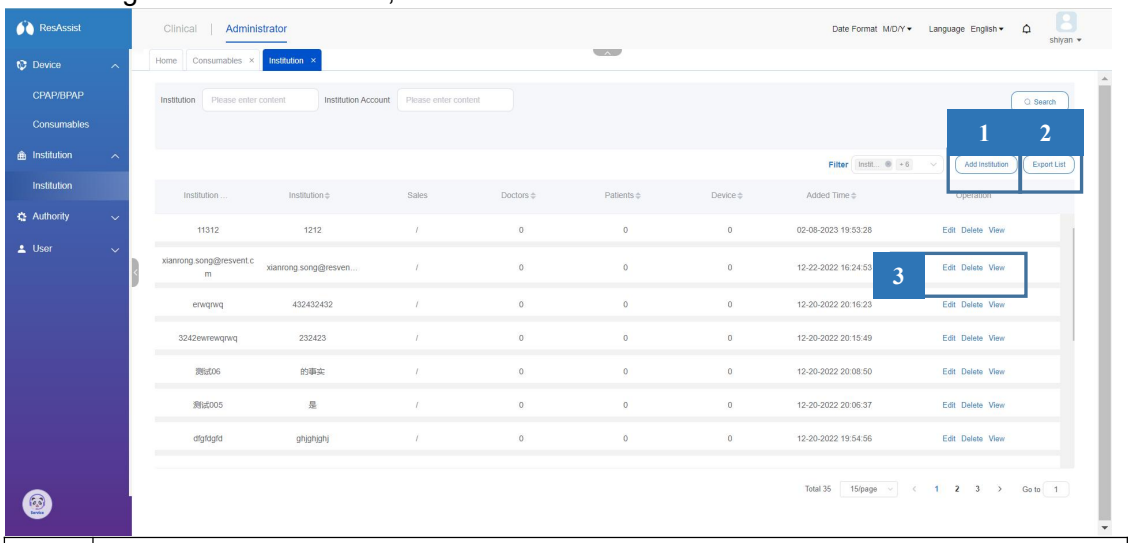
3. When you have completed the changes to the consumable cycle and presentation, click OK, and the system will apply the changes as the calculation of the consumable expiration time and synchronize the update of the consumable usage status in the list.

3.13 Institution

1. You can access the list of institutions by selecting the Administrator tab at the top and clicking the Institution item in the left navigation bar.



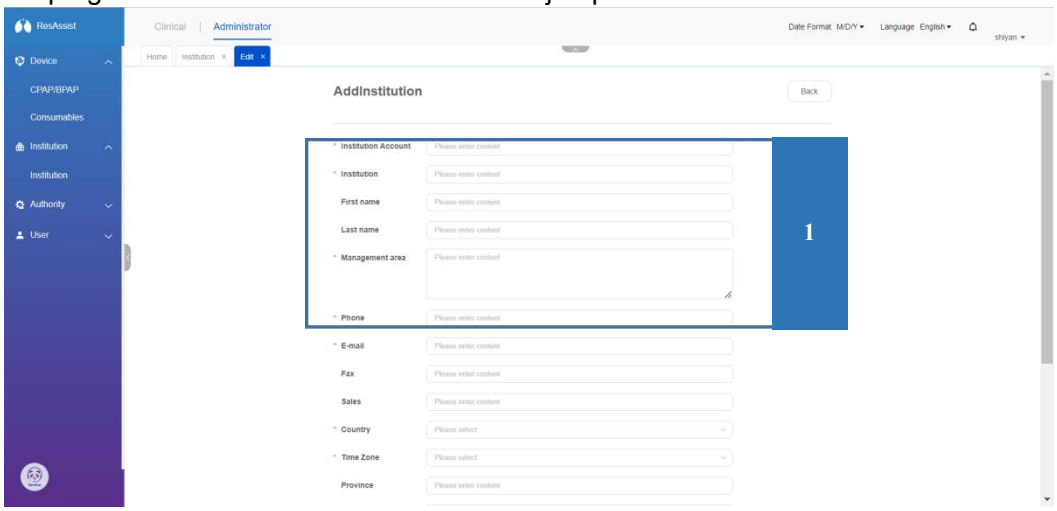
2. In the list of institutions, you can complete a series of operations related to the management of institutions, as follows:



1	Add institution
2	Edit, Delete, View institutions

3.13.1 Add institutions

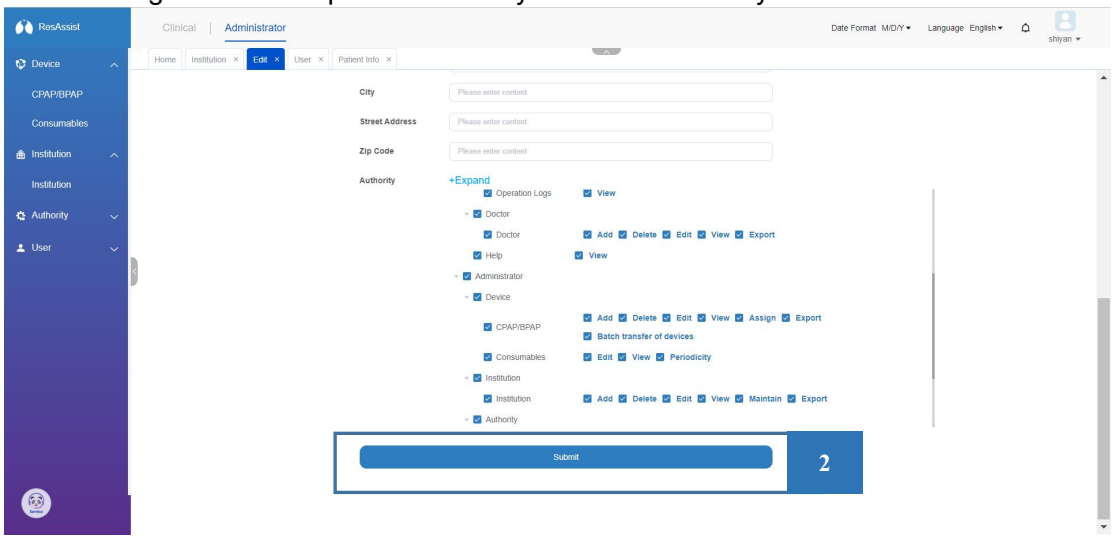
1. In the list of institutions, you can add an institution account via Add Institution at the top right of the list. Click Add Institution to jump to the Add Institution form.



2. In the Add institution form, you need to fill in the institution Basic/Contact/Authority information. The institution you created can log in with the Account in Basic and manage it with the rights assigned by Authority. The information required in each section is as follows, * marked as required:

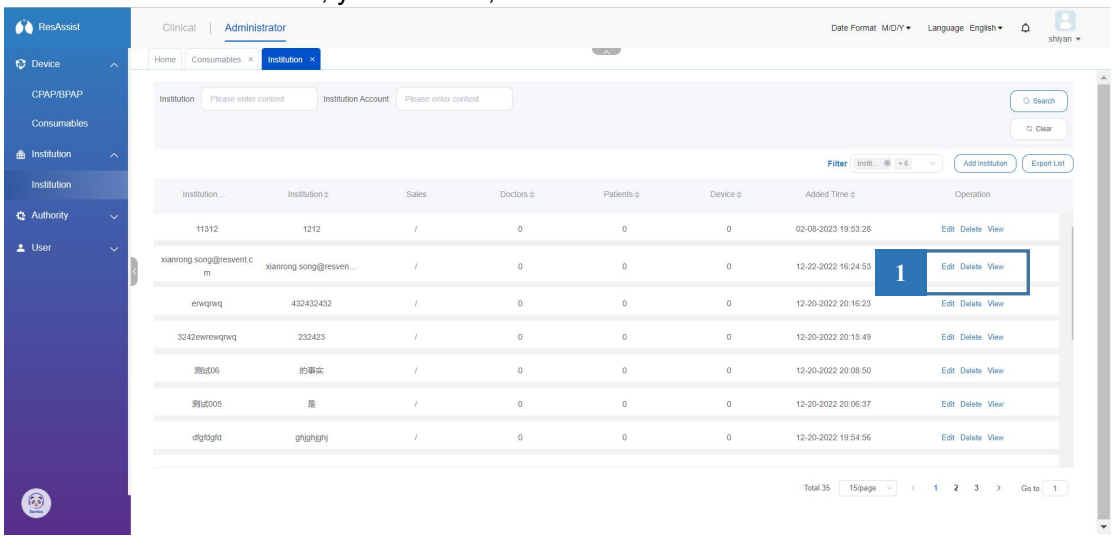
1	Basic Info: *Account、*Name、Contactor、*Area
2	Contact Info: *Phone, *E-mail, Fax, Sales, *Country, *Time Zone, Province, City, Street Address, Zip Code
3	Authority Info: Compliance, Patient, Data Upload, R-Track, Compliance, Data Export,Operation Logs, Doctor, Help, Device, Institution, Authority

3. After the information is filled in, click Submit to complete the creation of the institution, at the same time, the system will send the institution's account email to the email address you filled in, and the institution can use the account password in the email to log in. The account is the Account you have entered, and the password is the last 6 digits of the cell phone number you have entered by default.



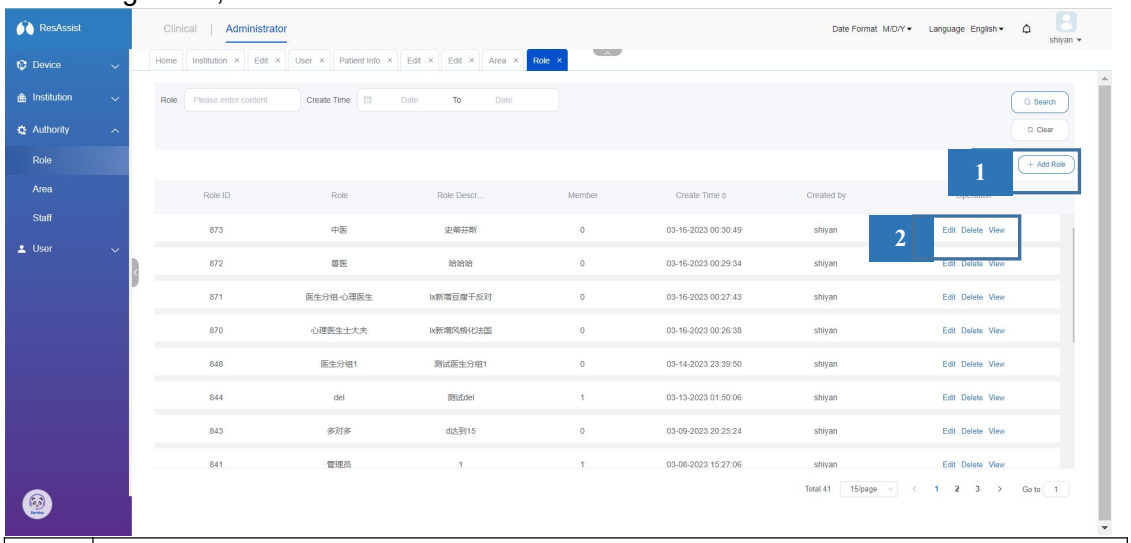
3.13.2 Viewing, editing, and deleting institutions

1. In the institution list, you can edit, delete and view the institution information.



3.14 Role

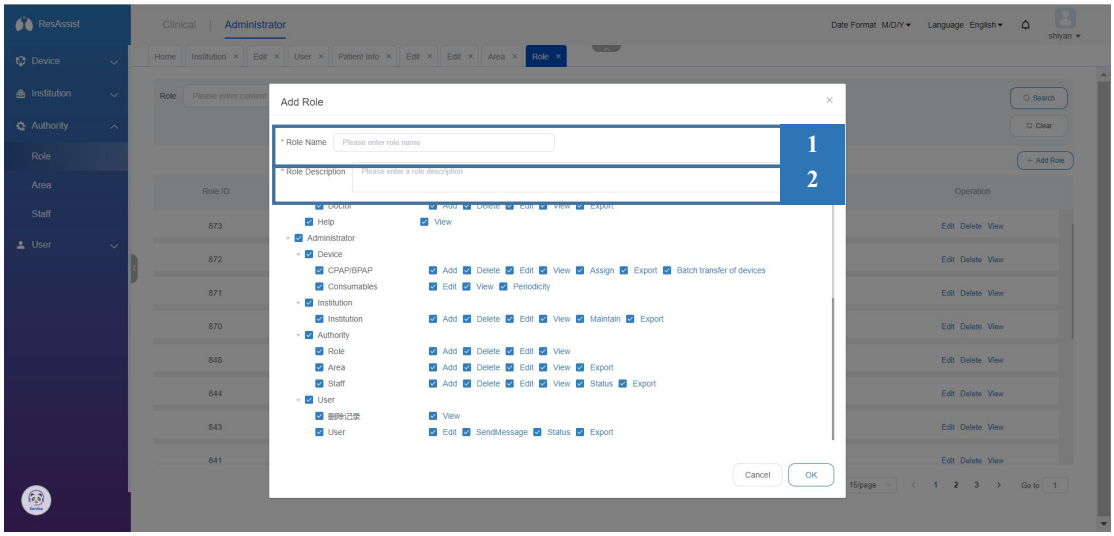
1. The Roles list allows you to complete a series of actions related to role management, as described below:



1	Add Role
2	View, Edit, Delete Roles

3.14.1 New roles

1. Click the Add Role button to the right of the Role list to enter the Add Role form window.

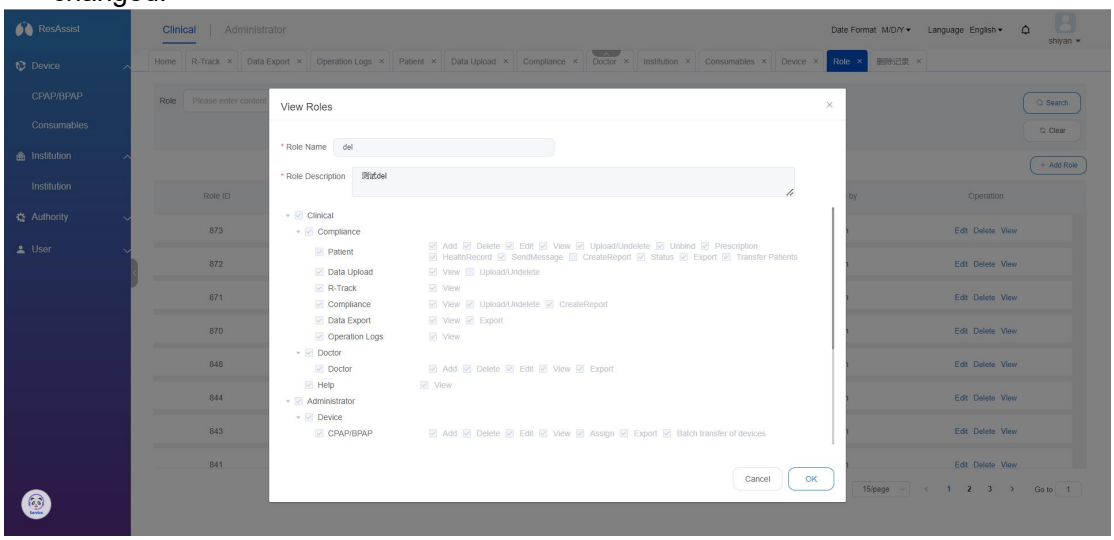


2. In this window, you can customize the Role Name, Role Description, and the platform management privileges that the role has. When you are done, click the OK button at the bottom of the form to complete the role creation. The role can be assigned the following privileges:

1	Authority: Compliance, Patient, Data Upload, R-Track, Compliance, Data Export,Operation Logs, Doctor, Help, Device, Institution, Authority

3.14.2 Viewing Roles

1. Click the View button to the right of the Role list to access the Role Permissions window. This window shows the permissions that the role currently has and cannot be changed.

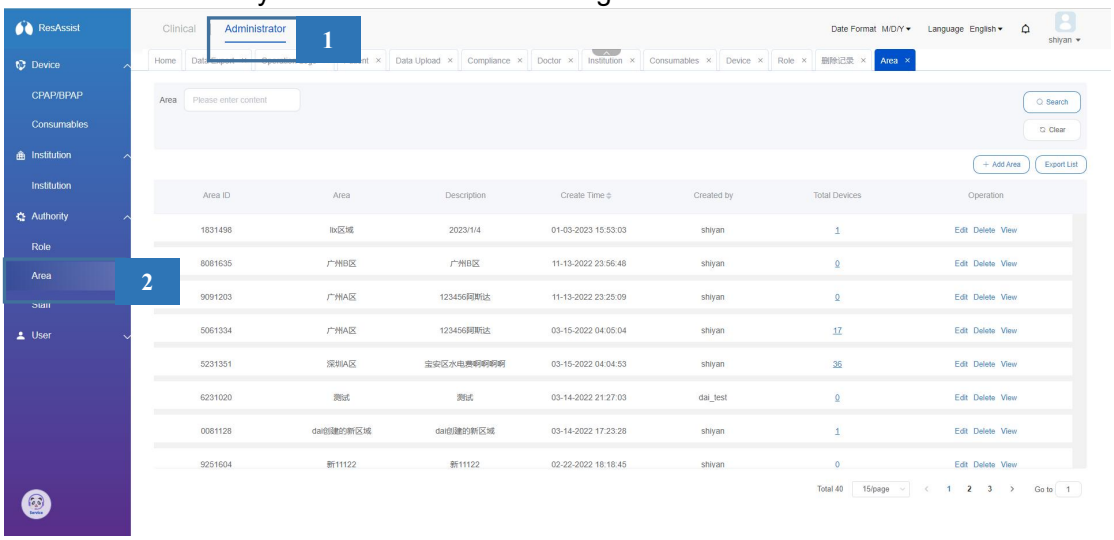


3.14.3 Edit/Delete/View Roles

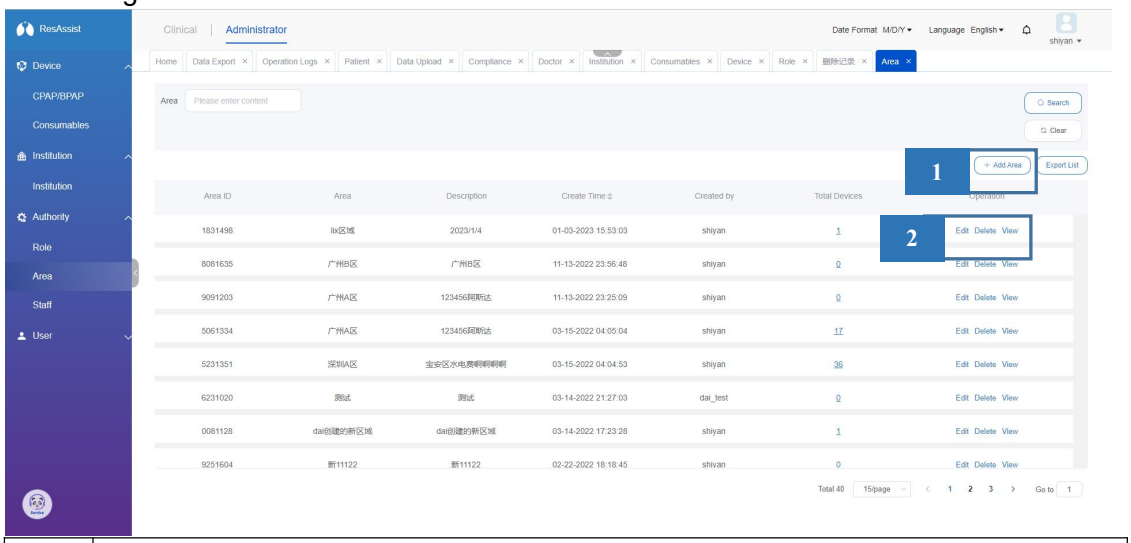
1. Click the Edit button on the right side of the Role list to enter the Role Permission Edit window. You can edit the role name and description, or check the permissions that the role has.
2. Click the View button on the right side of the Role list to enter the Role Permissions window. This window displays the current permissions of the role, which cannot be changed.
3. Click the Delete button on the right side of the role list to bring up the Delete Confirmation window. Click OK to delete the role. If the role is associated with a personnel account, it cannot be deleted.

3.15 Area

1. institutions can assign devices to different areas that have been created and associate the designated areas with staff accounts to achieve categorized management of devices by staff accounts. Select the Administrator tab at the top and click the Authority - Area item in the left navigation bar to enter the area list.



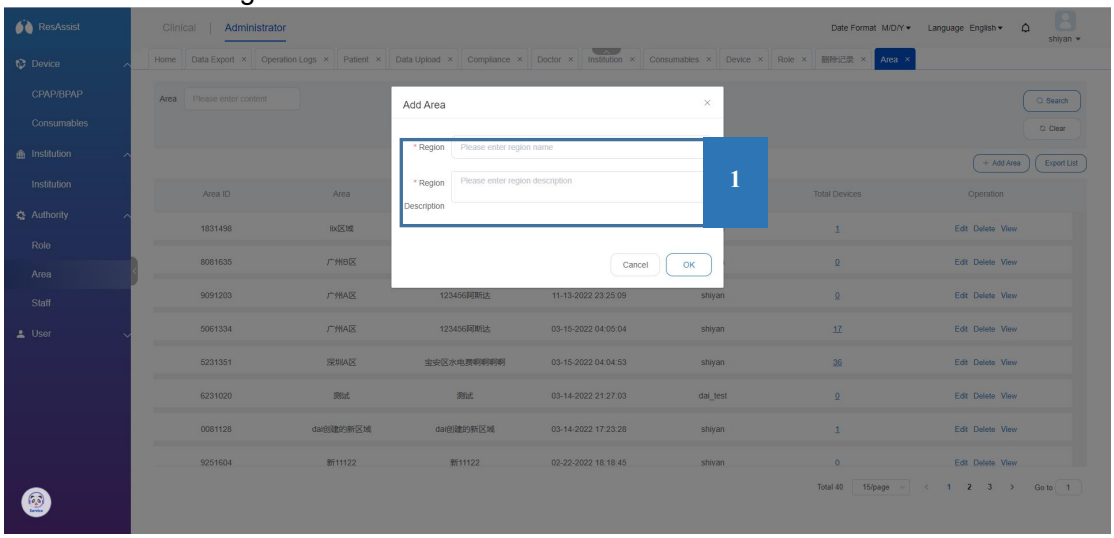
2. The area list allows you to complete a series of operations related to area management as follows:



1	Add area
2	Viewing, editing, and deleting areas

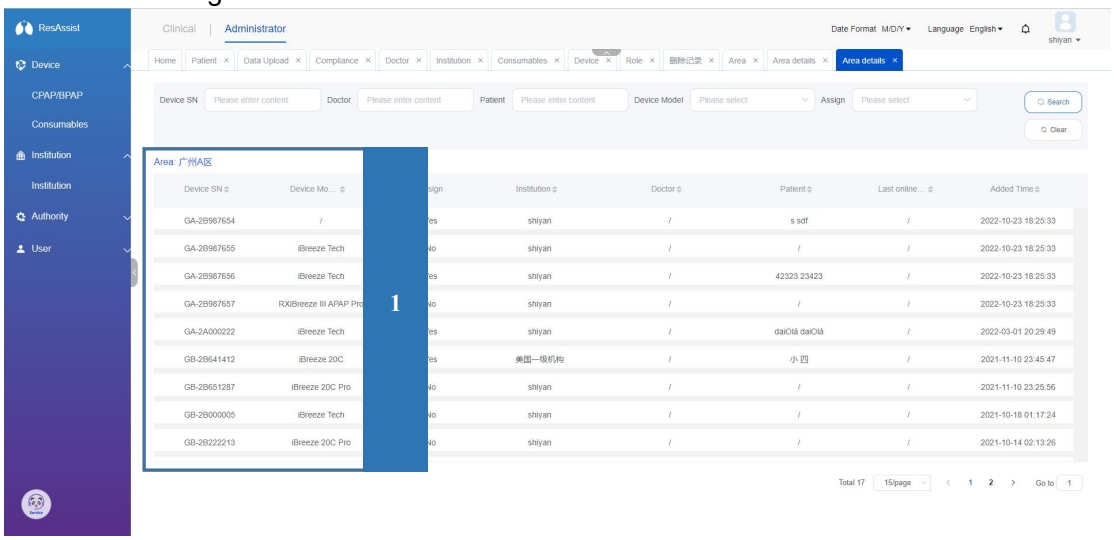
3.15.1 Add areas

1. Click the Add Area button on the right side of the area list to enter the Add Area window. In this window, you can customize the area name, area description. Click OK to finish creating the area.



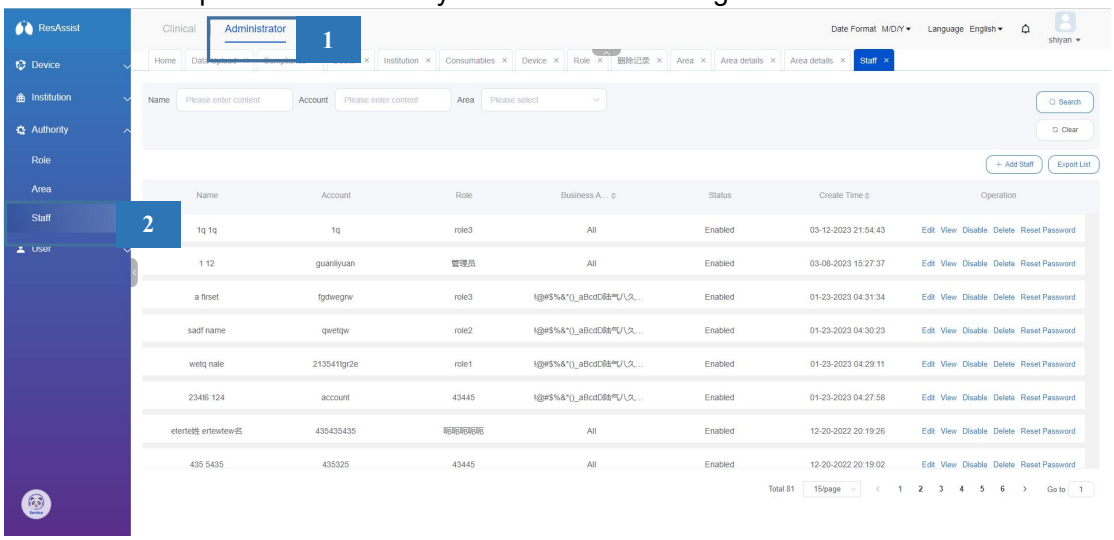
3.15.2 Edit/delete/view area

1. Click the View button to the right of the Role list to enter the Region Details list. This list will show all the devices associated with the selected region, and you can edit and delete the region records.

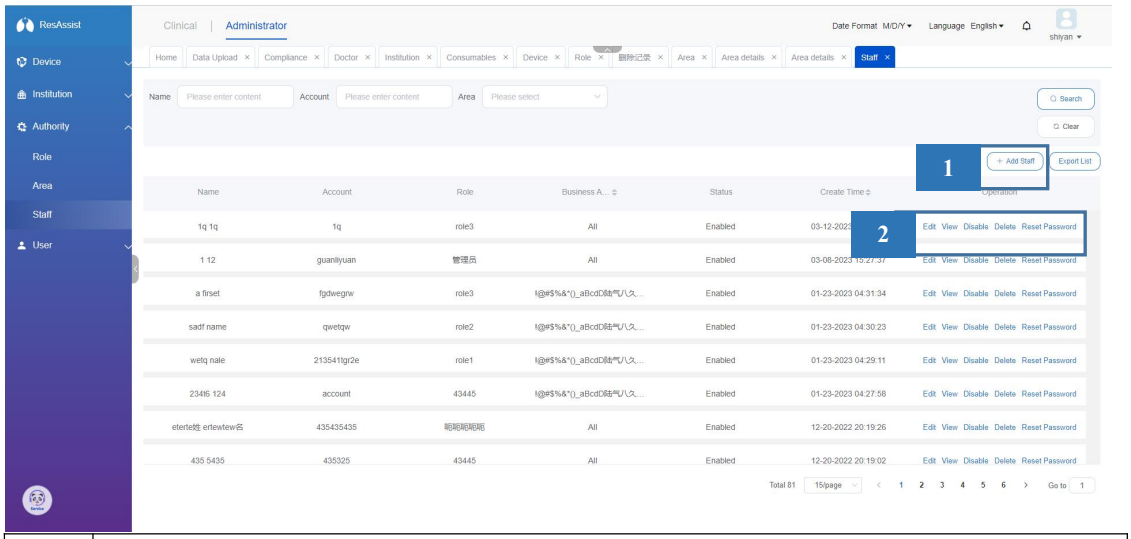


3.16 Staff

1. institutions can create staff accounts through Staff Management and assign different roles and management areas to the staff accounts to realize the control of staff management authority and device management scope. Select the Administrator tab at the top and click Authority - Staff in the left navigation bar to enter the staff list.



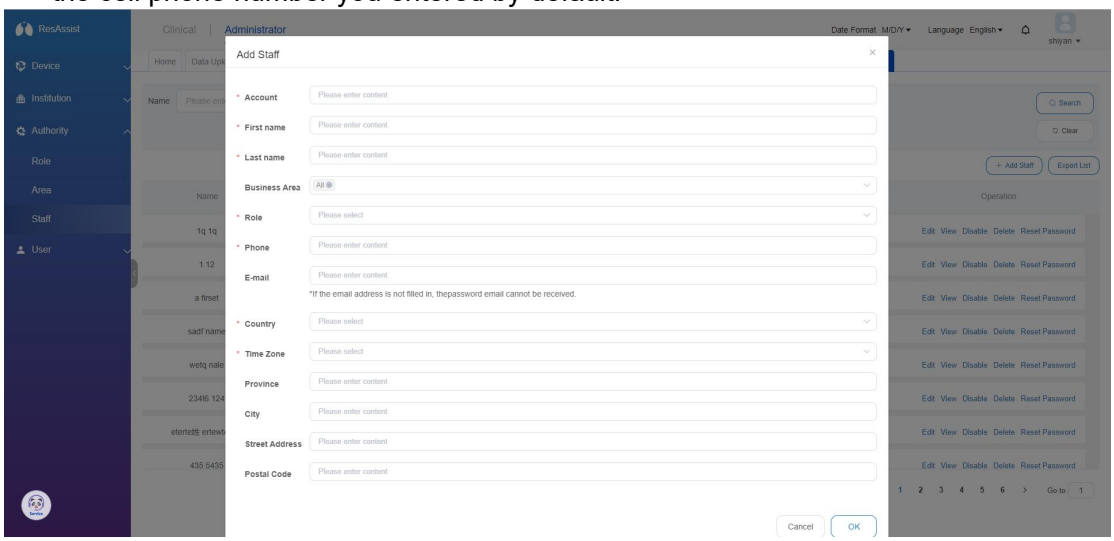
2. In the staff list, you can complete a series of operations related to staff management, as follows:



1	Add staff
2	View, edit, delete, disable, reset passwords

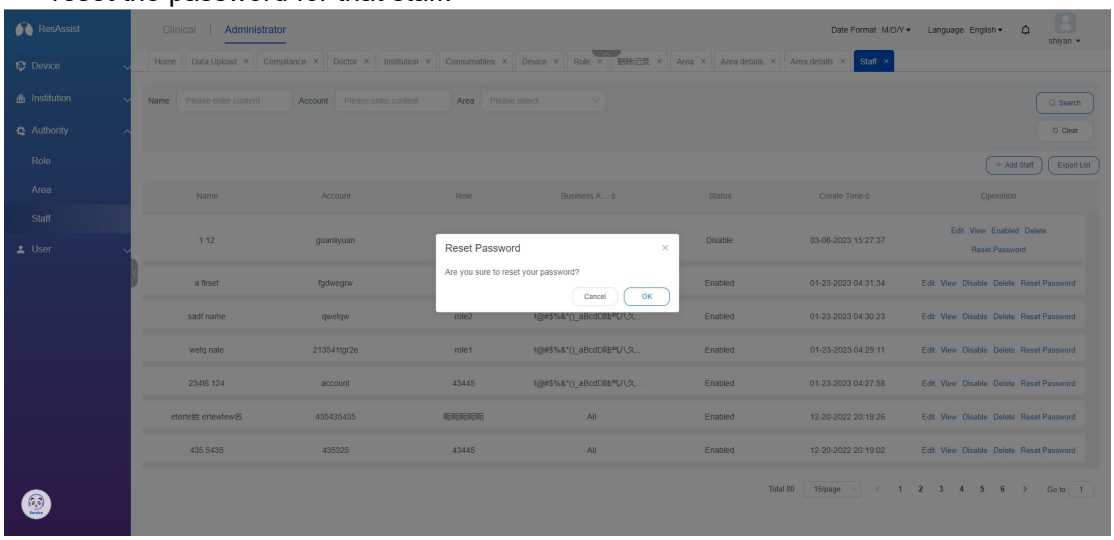
3.16.1 Add staff

1. Click the Add Staff button to the right of the list of staff to access the Add Staff form window. In this window, you will need to enter the staff's Account/Basic/Contact information and select a role and administrative area for the staff. Once you have made your selection, click OK to complete the creation of the staff account. At the same time, the system will send an account password e-mail to the e-mail address you entered for the staff, and the staff can use the account password in the e-mail to log in. The account is the Account you entered, and the password is the last 6 digits of the cell phone number you entered by default.

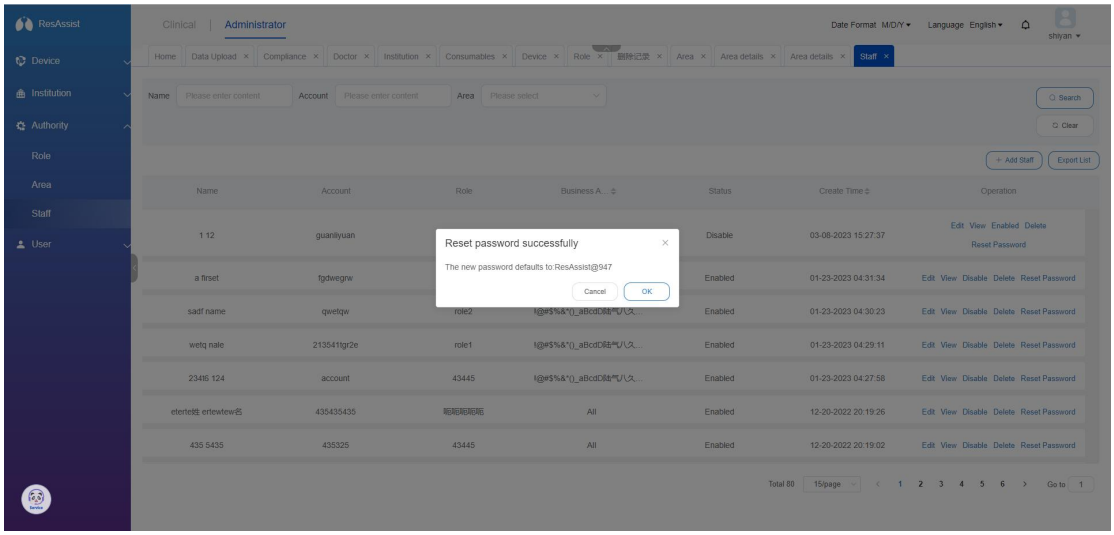


3.16.2 Reset Password

1. Click the Reset Password button on the right side of the staff list to bring up the Reset Password confirmation window. Click OK and the system will automatically reset the password for that staff.

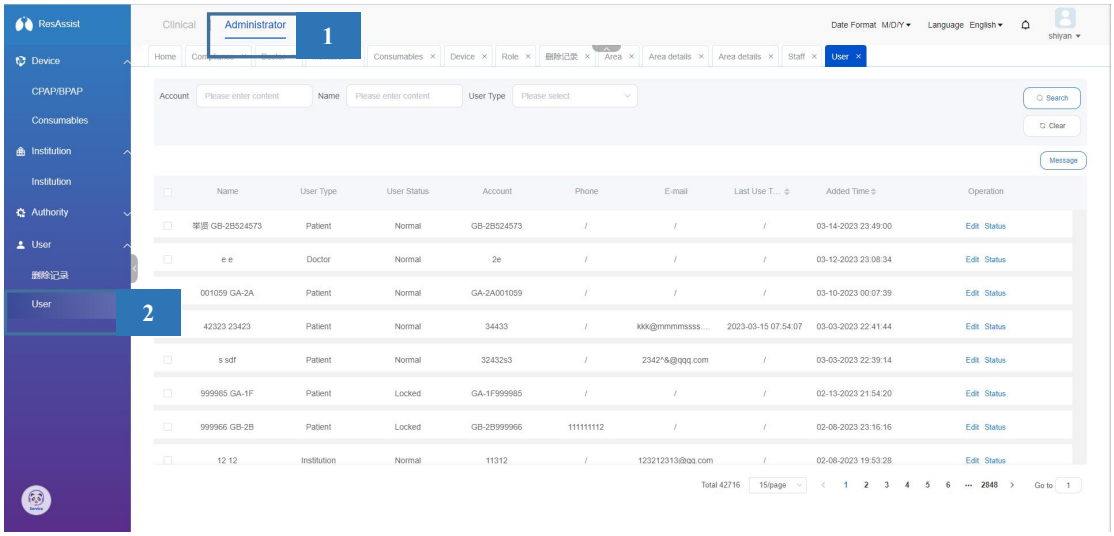


2. The reset password will be displayed in the window. You can inform the staff of the new password after the reset by account password mail or offline communication.

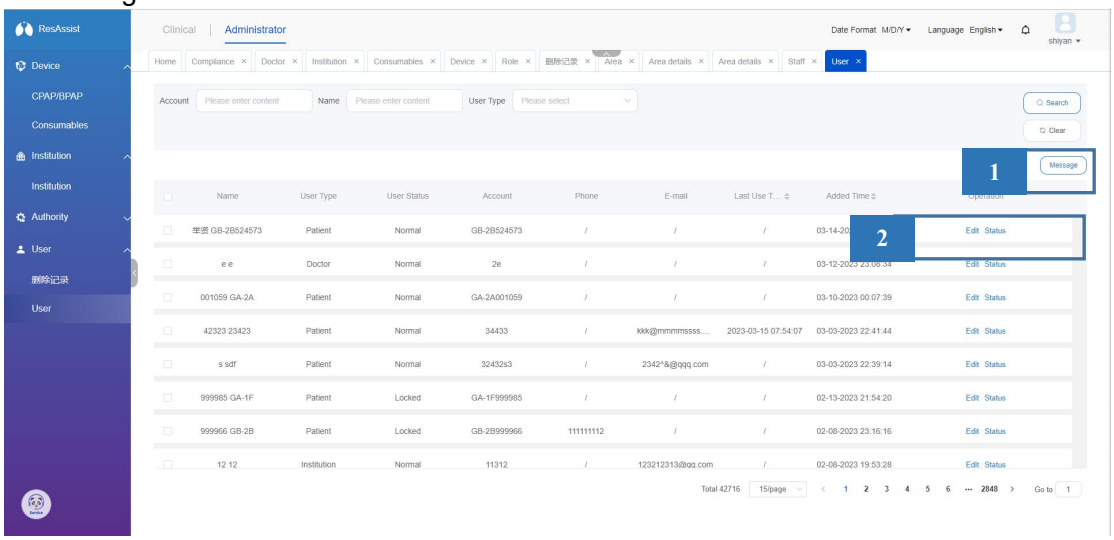

ResAssist
Clinical
Administrator
Date Format M/D/Y
Language English
shiyan
Device
Institution
Authority
Role
Area
Staff
User
Home
Data Upload
Compliance
Doctor
Institution
Consumables
Device
Role
Area
Area details
Area details
Staff
Name
Please enter content
Account
Please enter content
Area
Please select
Search
Clear
Add Staff
Export List
Name
Account
Role
Business A...
Status
Create Time
Operation
1 12
guanliyuan
Disable
03-08-2023 15:27:37
Edit View Enabled Delete Reset Password
a firset
fgdwegrw
Enabled
01-23-2023 04:31:34
Edit View Disable Delete Reset Password
sadf name
qwetqw
role2
Enabled
01-23-2023 04:30:23
Edit View Disable Delete Reset Password
wetq nale
213541grr2e
role1
Enabled
01-23-2023 04:29:11
Edit View Disable Delete Reset Password
2341 6 124
account
43445
Enabled
01-23-2023 04:27:58
Edit View Disable Delete Reset Password
etertet名 ertewtew名
435435435
All
Enabled
12-20-2022 20:19:26
Edit View Disable Delete Reset Password
435 5435
435325
43445
All
Enabled
12-20-2022 20:19:02
Edit View Disable Delete Reset Password
Reset password successfully
The new password defaults to:ResAssist@947
Cancel
OK
Total 80
15/page
1 2 3 4 5 6
Go to 1

3.17 User

1. You can control the status of currently managed patient, doctor, and staff accounts or send messages to specific users through User Management. Select the Administrator tab at the top and click the User item in the left navigation bar to enter the user list.



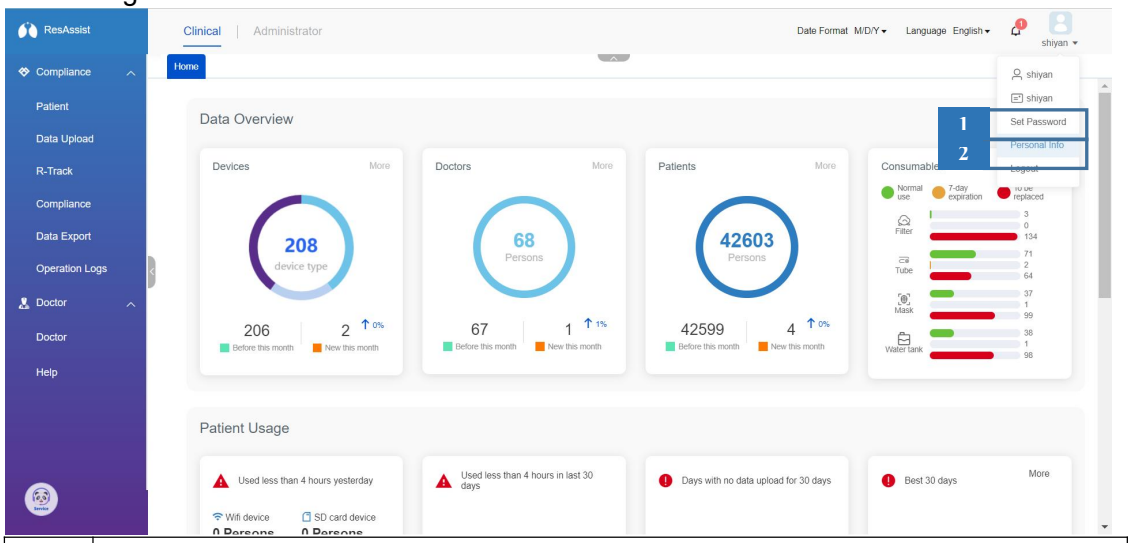
2. In the user list, you can complete a series of operations related to staff management as follows:



1	Message sending
2	User editing, status management

3.18 My information

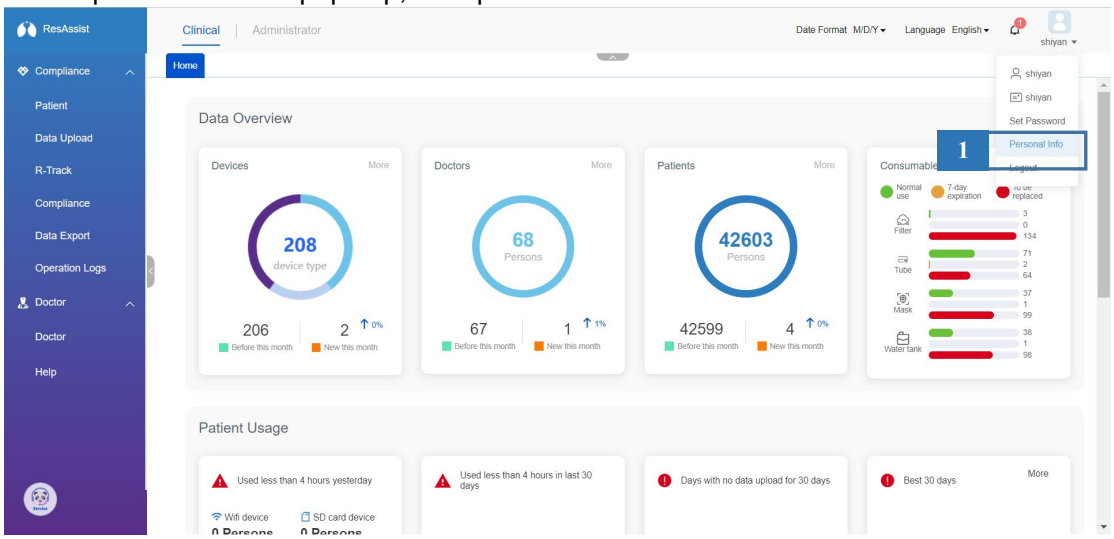
1. In the personnel Center, you can complete a series of operations related to account management as follows:



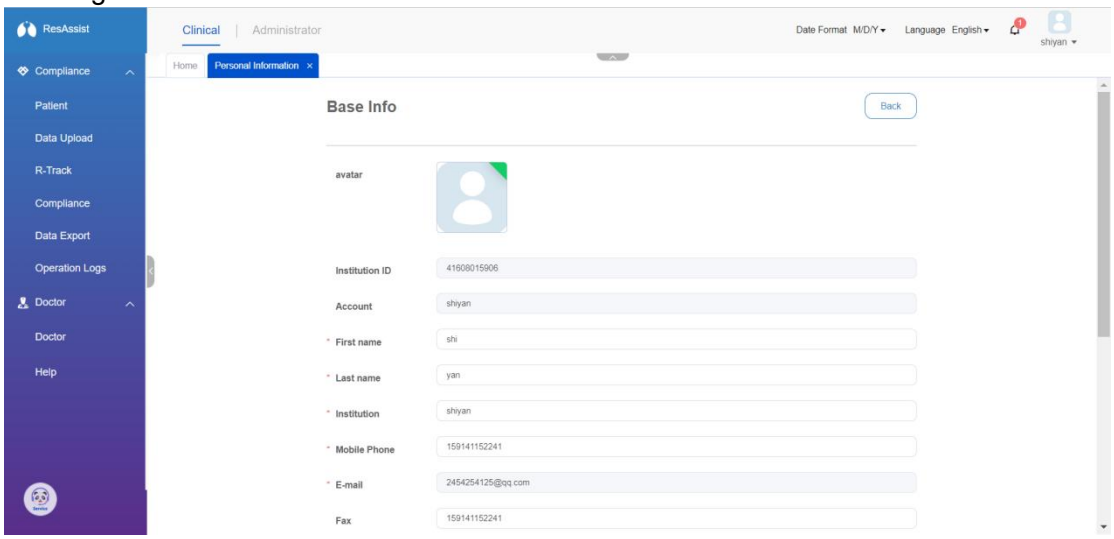
1	Change Password: Change the password of the current account
2	personal Information: Modify the personal information of the current account

3.18.1 Edit Information

1. Click the Avatar button on the right side of the top navigation bar, and in the drop-down box that pops up, click personal Info.



2. After entering the personal information editing interface, the institution can upload the avatar, edit Basic/Contact information, and then click Submit to submit and save after finishing the modification.



4 Doctor Functions

4.1 Doctor Main Functions

ResAssist for doctor privileges includes the following key features:

Login: Log in to ResAssist using your ResAssist account.

Forgot Password: Reset your ResAssist password.

Home page: displays an overview of the associated patient data and statistics.

Patient Management: View and manage the associated patient information, transfer patients, export patient list, generate, download, print and export patient therapy reports, and remotely set patient therapy parameters.

Data Upload: Upload the associated patient therapy data.

R-Track: Generate simple patient reports by using the serial code corresponding to the therapy data.

Compliance Management: View and manage the associated patient compliance data.

Follow-up Management: View and manage the follow-up information of the associated patients.

Data Export: View and manage the exported data of the associated patients.

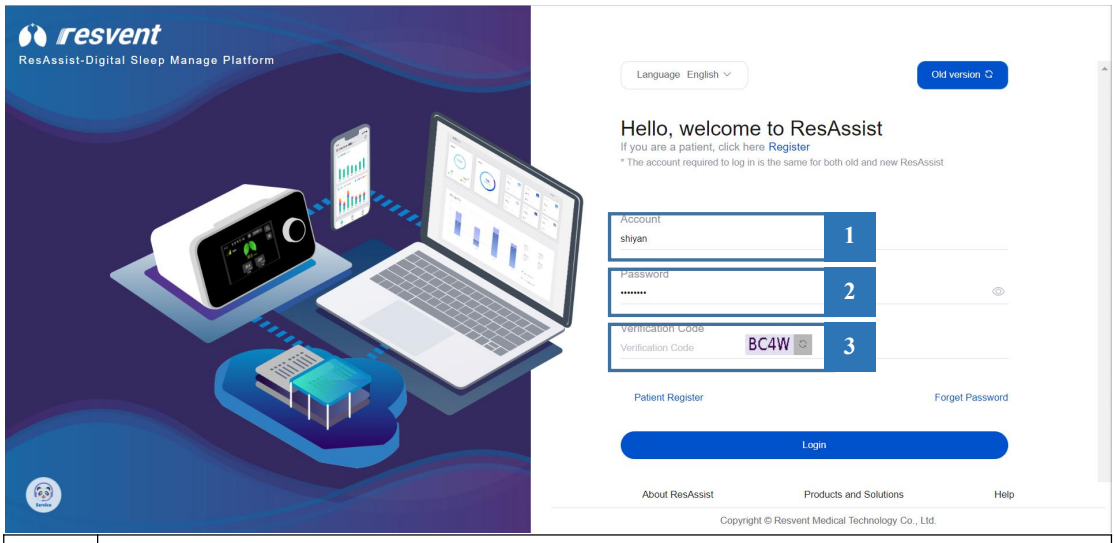
Patient Log: View and manage the operation log of the associated patients.

personal Information: View and manage the basic information of the current account.

4.2 login

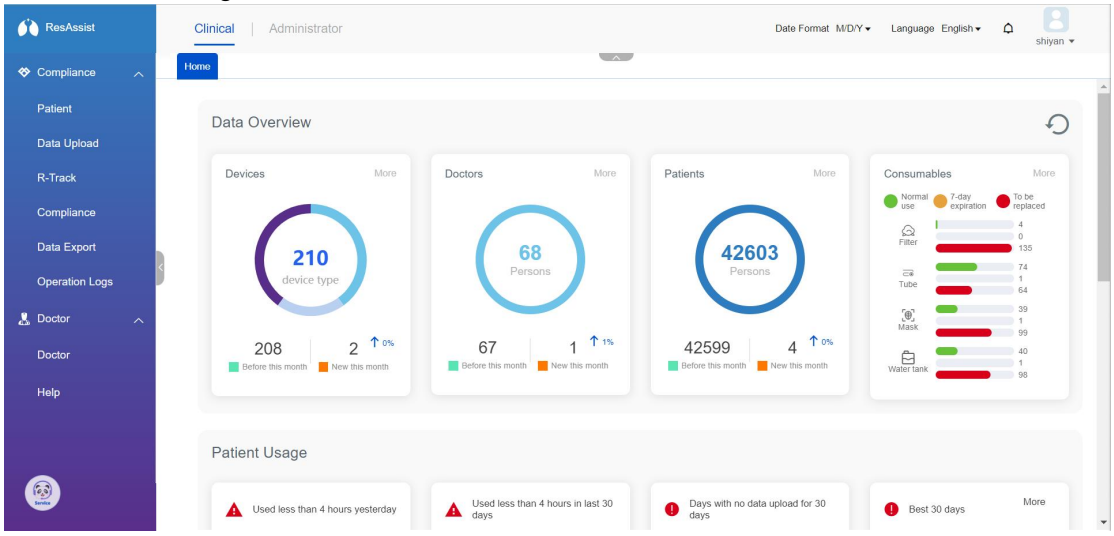
You can use your ResAssist account to log in, and you can use the system functions after logging in.

1. Copy the ResAssist address: https://resassist.resvent.com/, paste it into the Google address bar, and enter to access the system login page. On the login page, please enter the ResAssist account assigned to you by your institution, your password, and fill in the verification code.



1	Account Input Box
2	Password input box
3	CAPTCHA input box

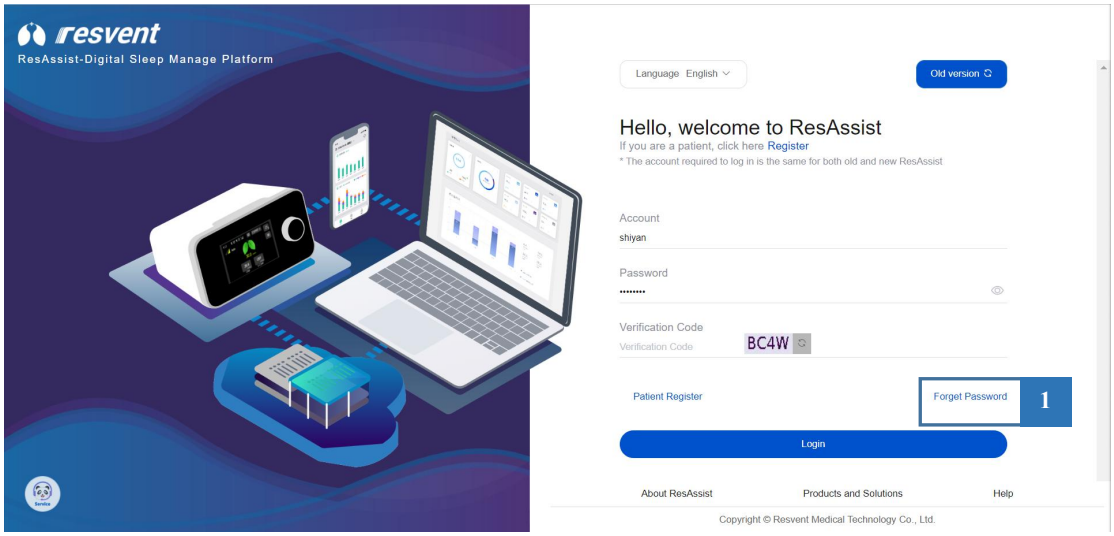
2. Once your account, password and CAPTCHA have been entered, click Login to be redirected to the Home Page. if your account is associated with more than one institution, you will need to select the target management institution before you can continue to log in to ResAssist. for more information, see « ***5.10.2.2*** ».



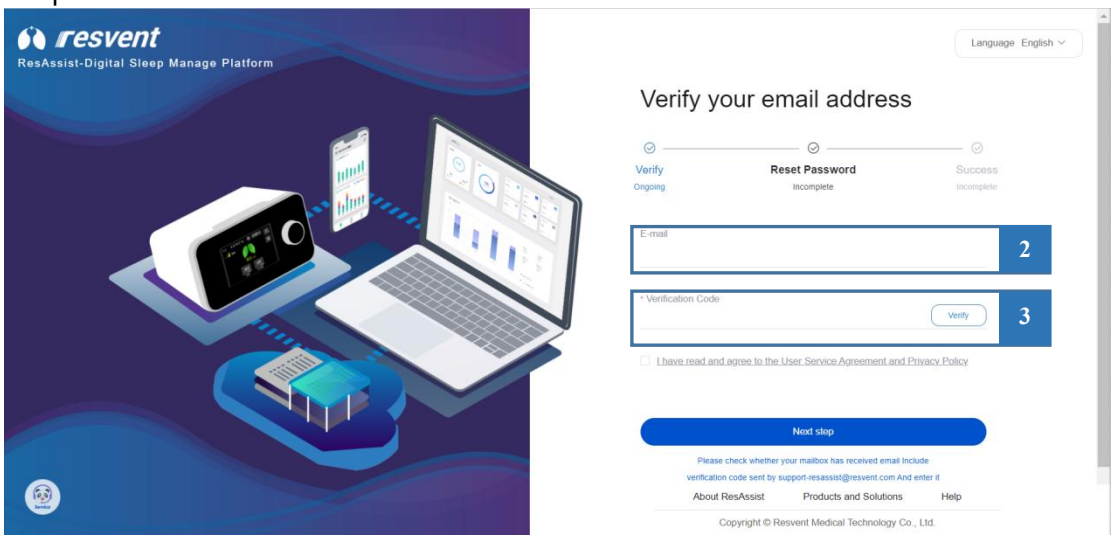
4.3 Forgot password

If you forget your password, you can reset your ResAssist password by forgetting your password.

1. Click Forget Password in the login page to enter the password recovery page.



2. Enter the e-mail address associated with the account and click Verify, the system will send a reset password link to the specified e-mail address within 30 seconds. After receiving and entering the verification code, click Next Step to enter the password reset link.

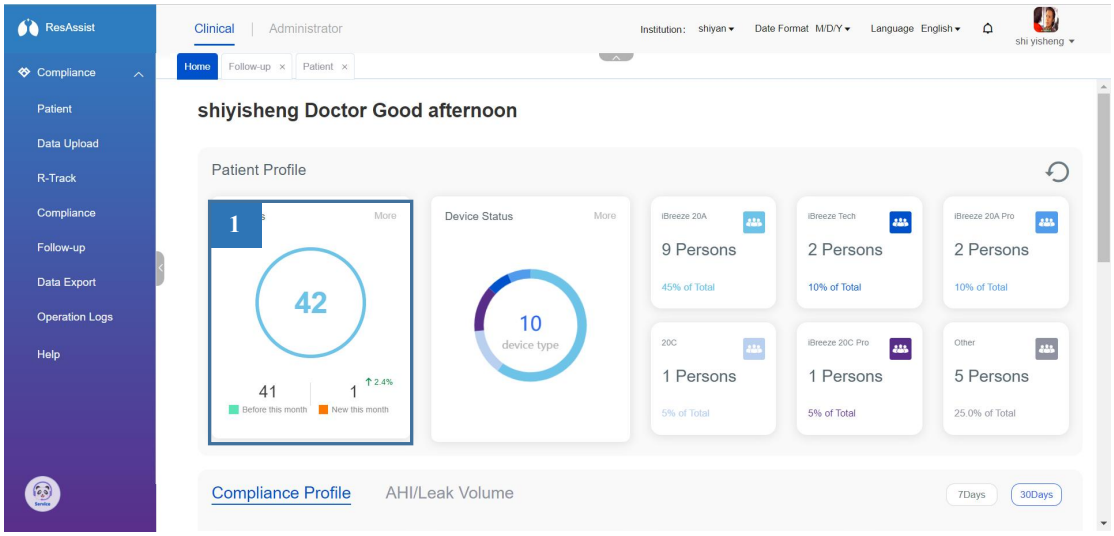


3. After entering and confirming the new password, click Next Step to complete the password reset for the account.

4.4 Home

You can view an overview of each management data in the Home Page.

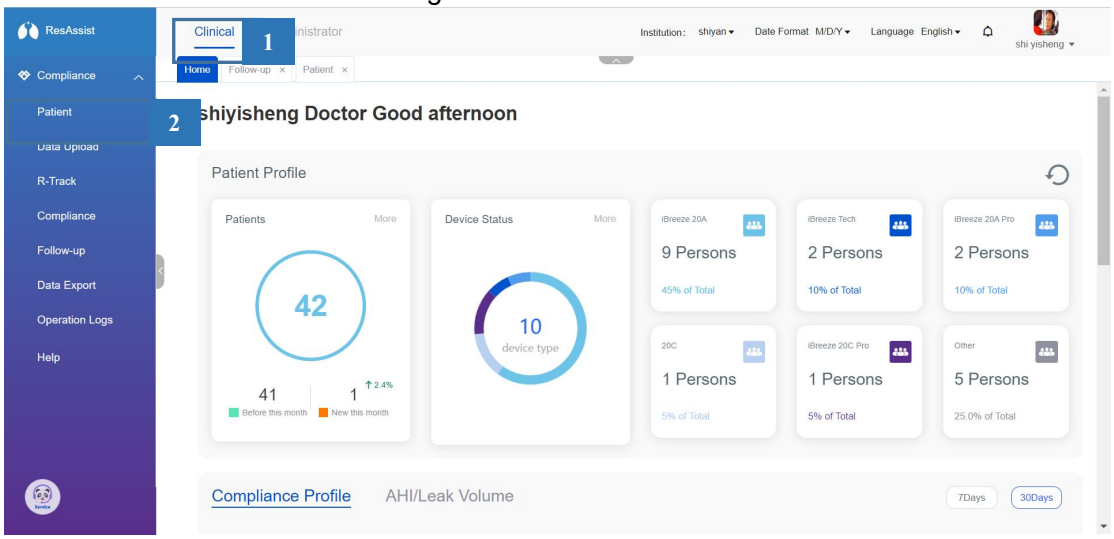
1. When you log in to ResAssist, you will be taken to the Home page by default, which displays patient-related data in the form of cards. Click More in the upper right corner of each card to view the details of that data.



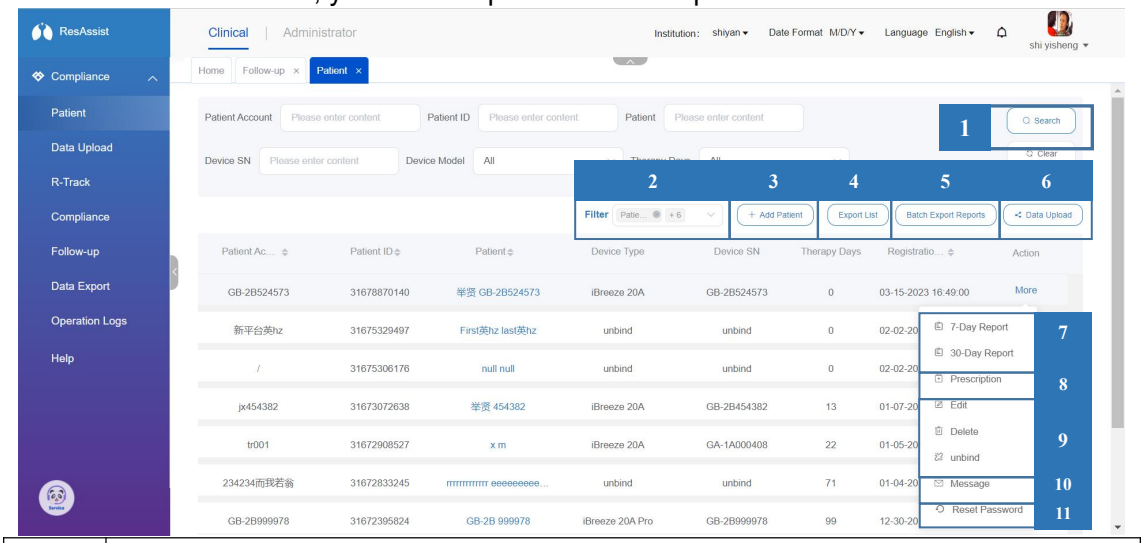
4.5 Patient

You can manage patient-related content in the Patient module.

1. You can access the patient list by selecting the Clinical tab at the top and clicking the Patient item in the left navigation bar.



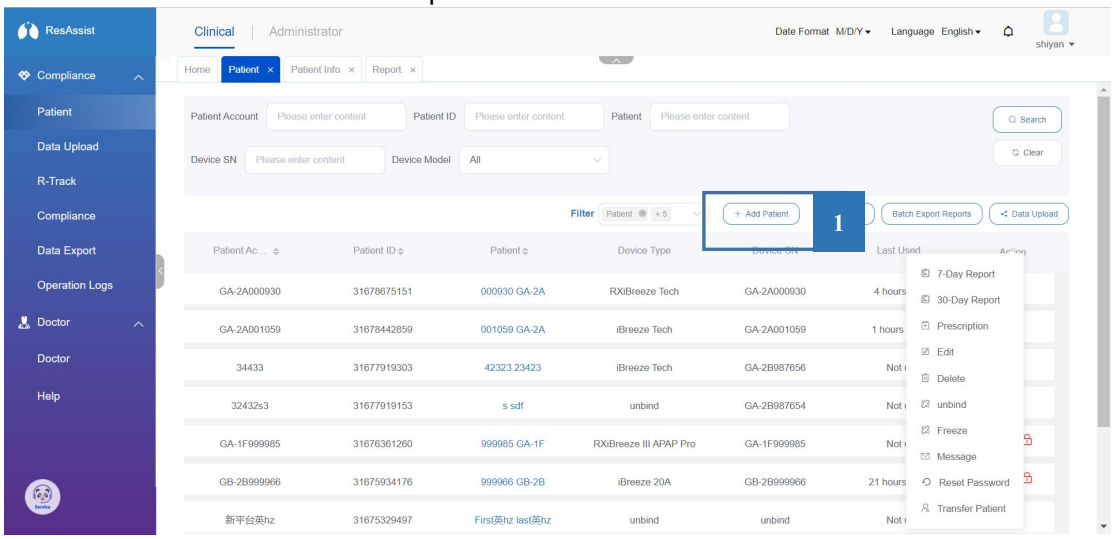
2. In the Patient List, you can complete a series of patient-related actions as follows:



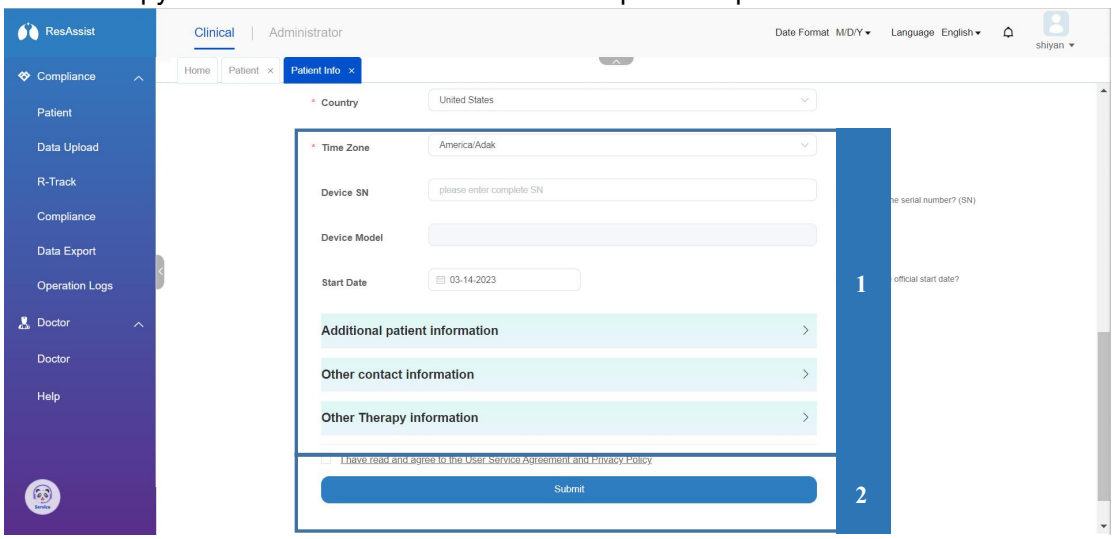
1	search patients by search term
2	Display list fields based on filters
3	Adding patients
4	Export current patient list
5	Batch export patient reports
6	Upload patient therapy data via SD card
7	Generate 7 days / 30 days patient therapy report
8	Remote setup of patient therapy parameters
9	Edit, delete, and unbind patients
10	Send messages
11	Reset patient password

4.5.1 Add Patient

1. In the Patient list, you can add a patient via Add Patient. Click on the Add Patient button in the list to access the patient addition form.

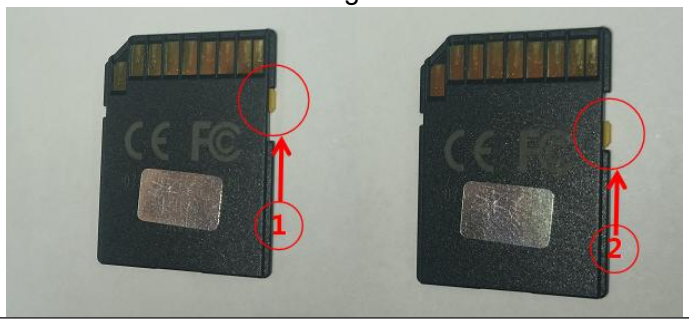


2. In the Patient Addition form, fill in the patient's Account / Basic / Additional / Contact / Therapy information and click Submit to complete the patient addition.



4.5.2 SD card data upload

1. In the patient list, the institution can upload the patient therapy data through the SD card and generate the therapy report of the corresponding period through the uploaded data. The institution needs to install the SD card to the card reader correctly and make sure that the switch status of the SD card is on, the data can not be imported when it is off. As shown in the figure below.

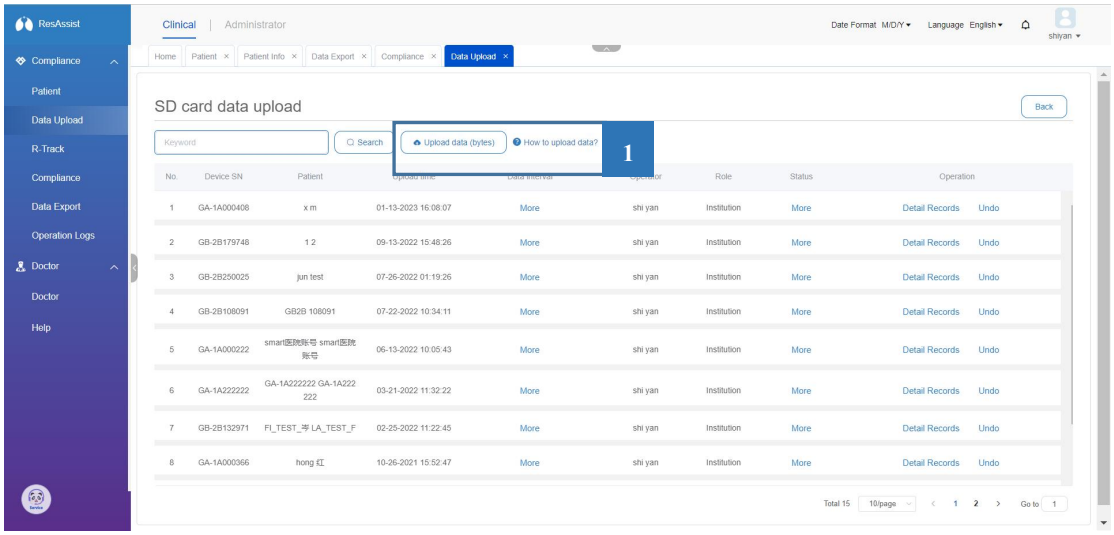


1	On state
2	Off state

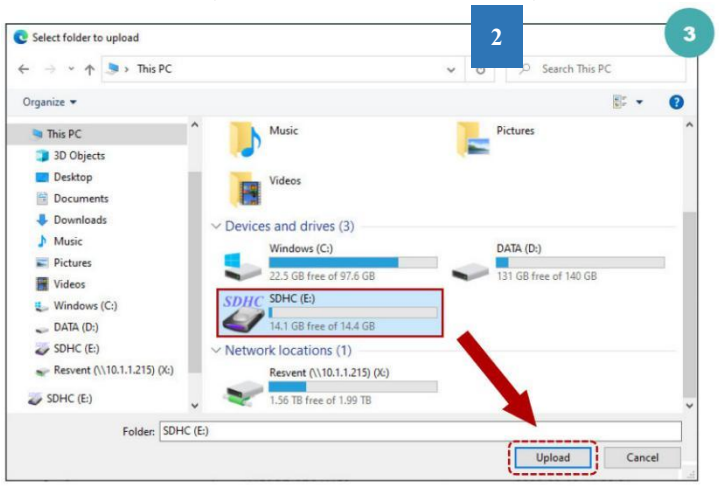
2. Insert the SD card according to the card reader's insertion port marking and install the SD card into the card reader. After installation, insert the card reader into the USB port of your computer.



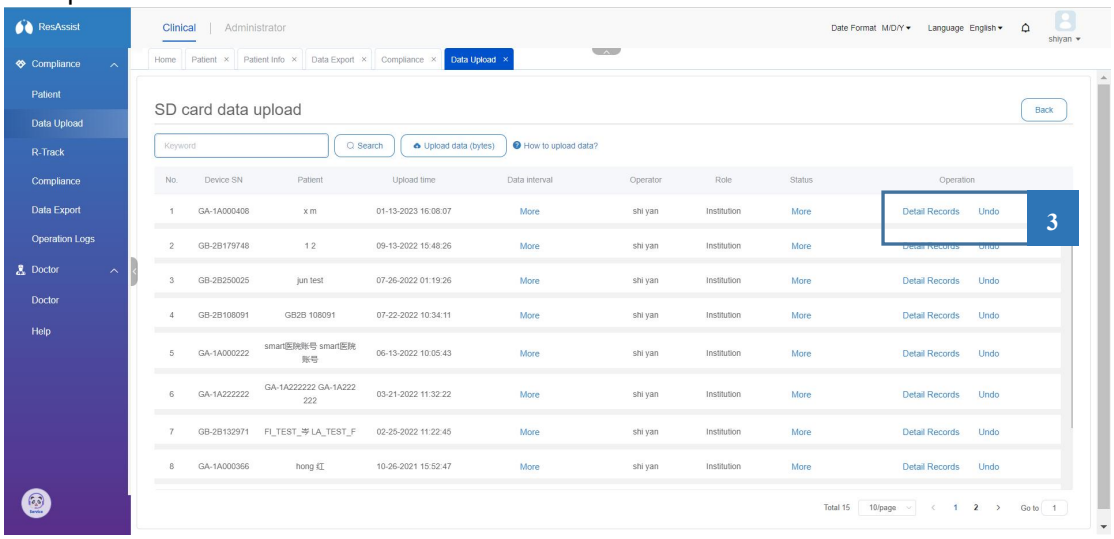
3. In the patient list, click Data Upload to jump to the data upload interface. Click the Upload Data (Bytes) button in this interface to bring up the Local Path Selection window.



4. In the Local Path Selection window, select the directory where the SD card is located, or select the Therapy folder within the directory and click Upload to upload.

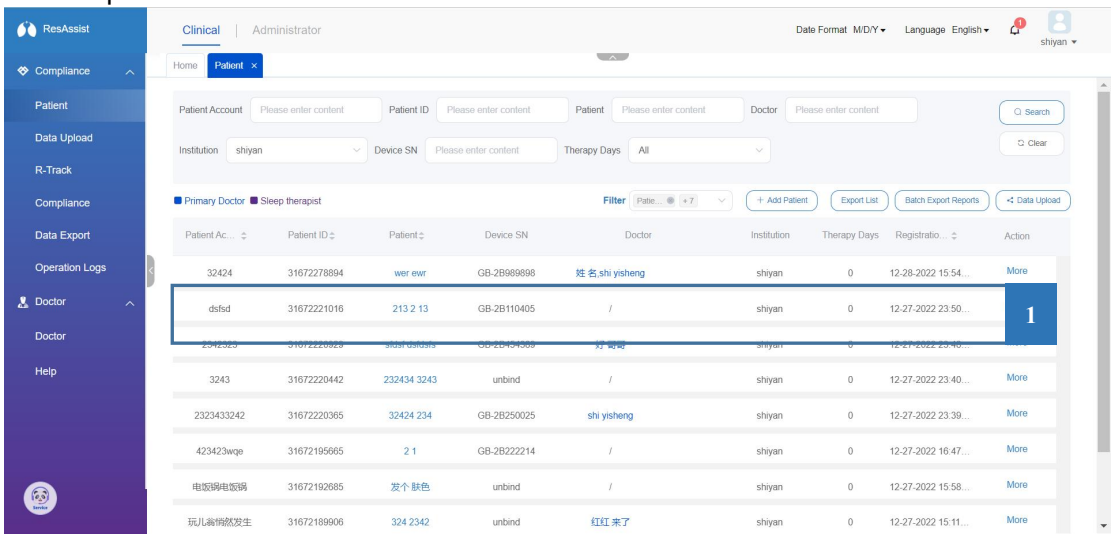


5. During the data upload period, the institution can view the progress of the upload in the Data Upload list, and after the upload is complete, the data for that time period will be used as the basis for generating patient therapy reports. Click Detail Record / Undo in the list to view the details of the therapy data for that session, or to withdraw the uploaded data.

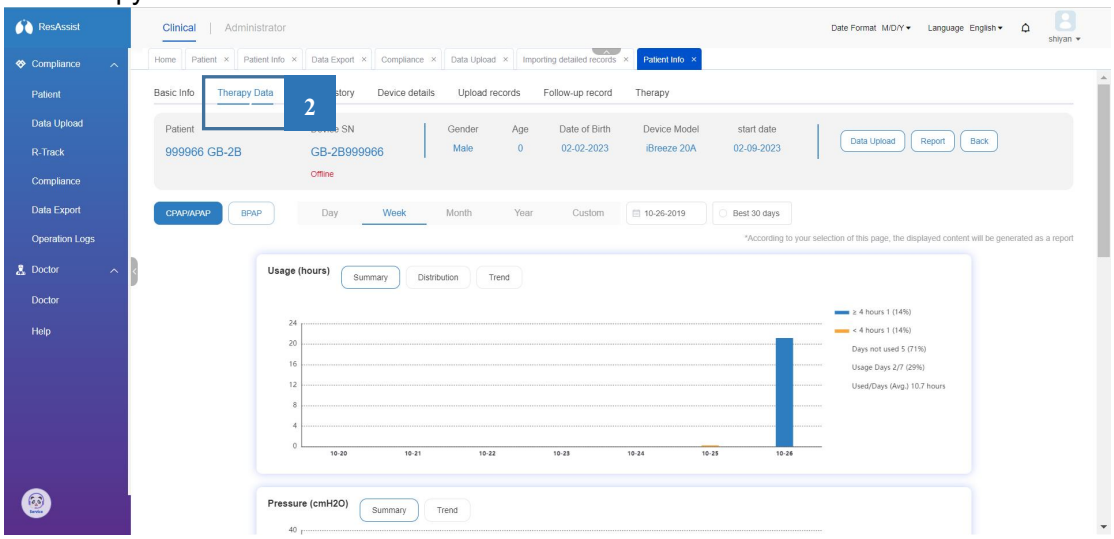


4.5.3 Report Generation

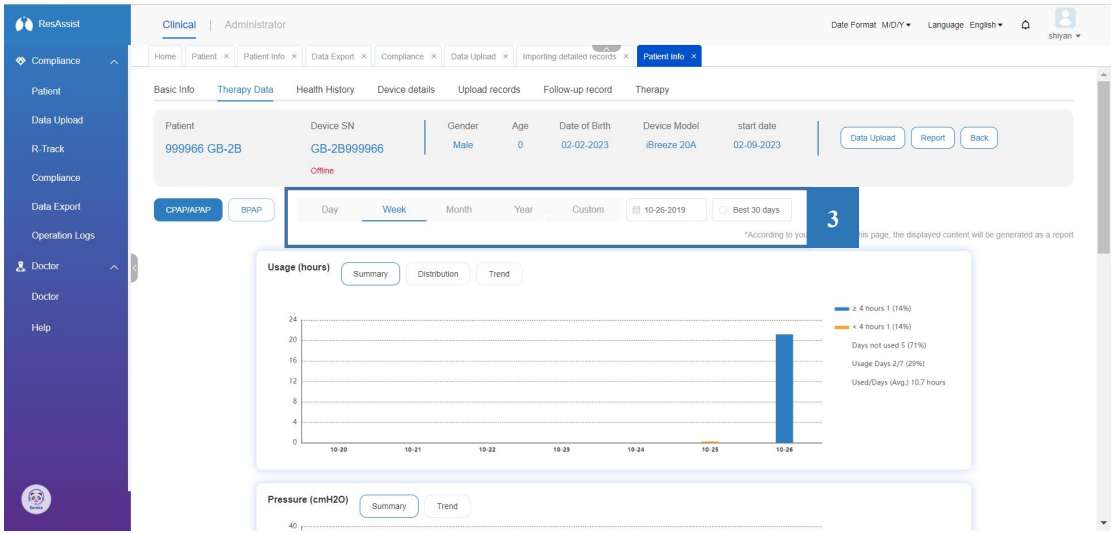
1. In the Patient list, you can generate a corresponding therapy report based on the data the patient has uploaded. Double-click a patient in the list to view the details of that patient.



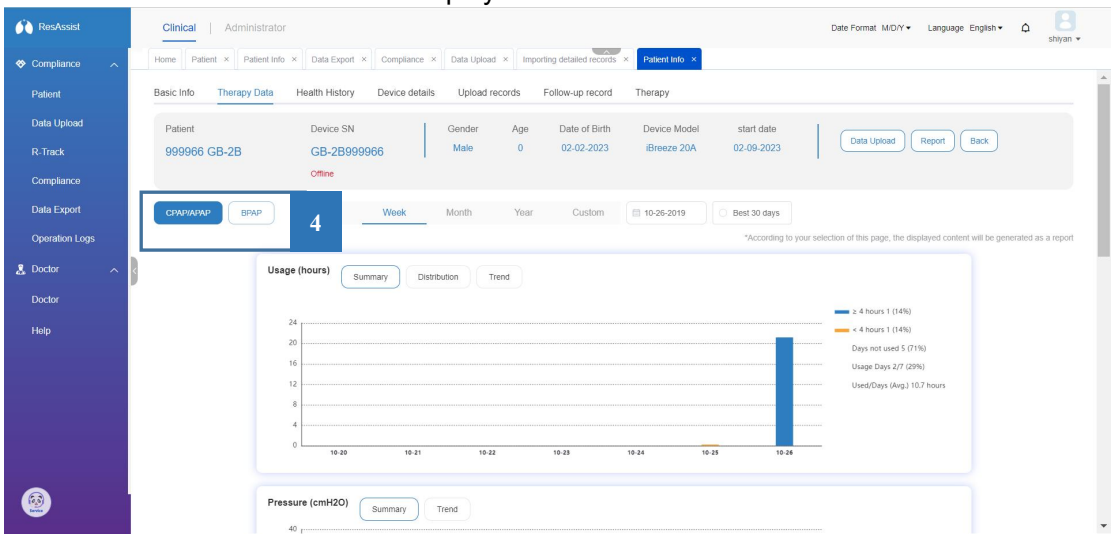
2. In the Patient Details page, click Therapy Data to view the patient's historical therapy data.



3. institutions can switch between data zones and therapy modes to view patient data performance. institutions can click on the default option for a data interval to view the patient's data for a single day, the last 7 days, the last 30 days, the last 1 year from the patient's last date of use, or to view the patient's data for a custom time period, which cannot exceed 1 year.



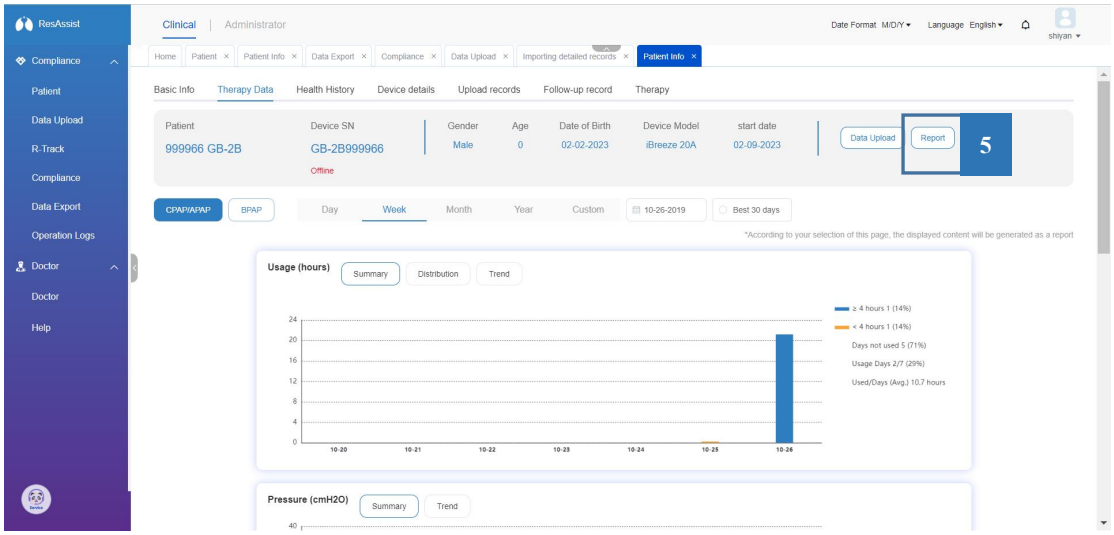
4. At the same time, you can switch the therapy mode according to the patient's model, and the therapy parameters displayed in this interface will be switched with the CPAP/APAP or BPAP therapy modes, and the corresponding summary, distribution, and trend information will be displayed in the chart.



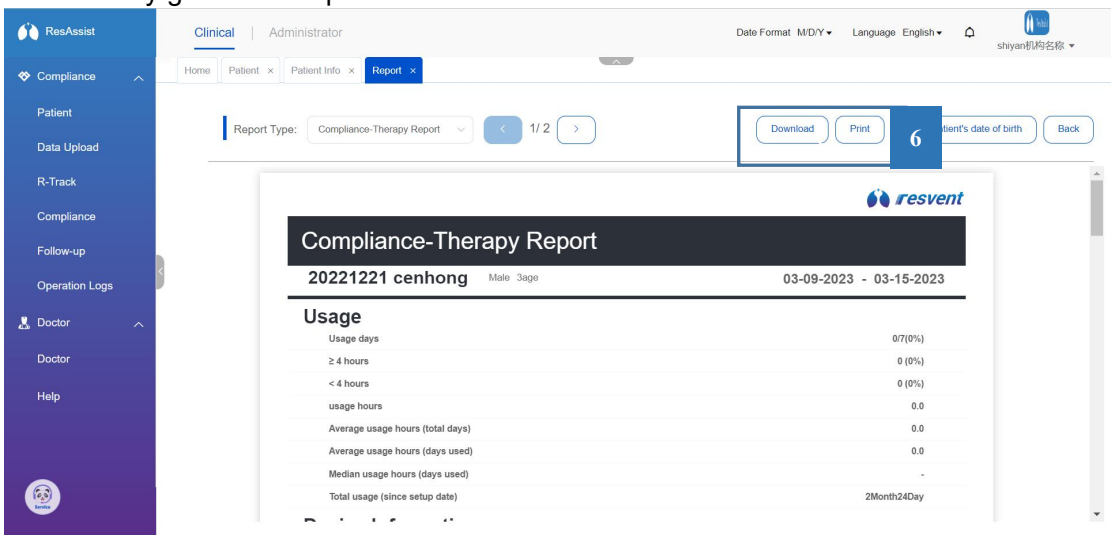
5. The parameters corresponding to the CPAP/APAP and BPAP therapy modes are shown below:

1	CPAP/APAP: Usage (hours), Pressure (cmH2O), Leak (L/min), Event
2	BPAP: Usage (hours), AHI (event/hour), IPAP (cmH2O), EPAP (cmH2O), Leak (L/min), Tidal Volume (ml), Minute Ventilation (L/min), Respiratory Rate (bpm)

6. When the preview is complete, click Report in the interface to generate the corresponding therapy report for the currently selected time period and therapy mode in the therapy report page.

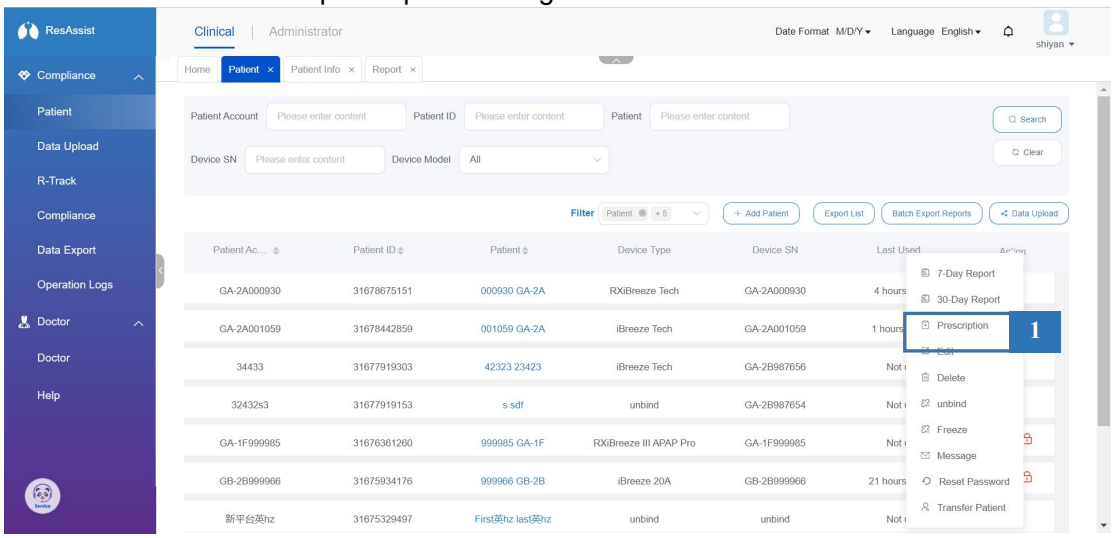


7. You can click the Download / Print button to download or print the contents of the currently generated report.

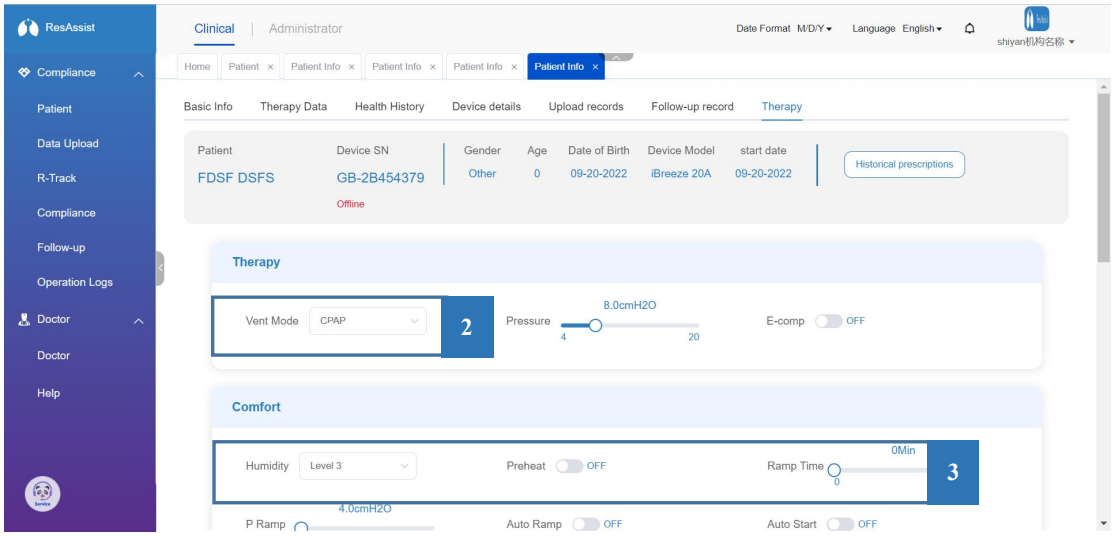


4.5.4 Remote Prescription

1. You can remotely modify the therapeutic parameters of a patient's ventilator through the Prescription function. In the patient list, click the More - Prescription button in the list to enter the prescription setting interface.



2. You can switch the therapy mode of the current patient according to different models, and adjust the therapy parameters, comfort parameters and general parameters under each mode. When adjusting the parameters, the status of each parameter will be displayed in the interface in real time, and you can modify the parameter values by dragging the bar or switch. Some of the parameters have linkage relationship, when your current setting is out of the range of the parameter to be modified, the system will prompt an error message and reset the parameter value.

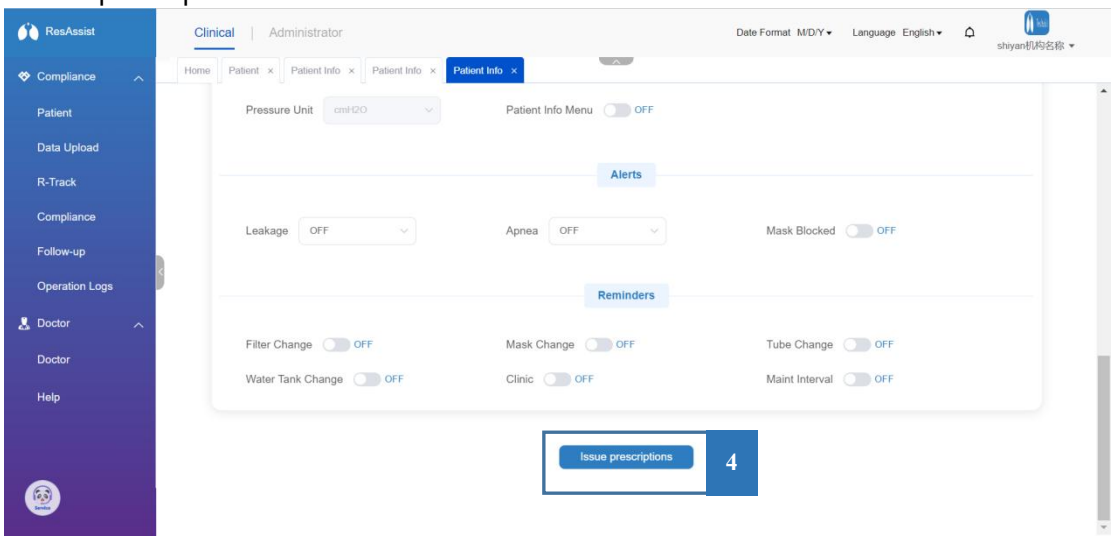


3. Each parameter will be switched according to the currently selected model and therapy mode, and the adjustable parameters are shown below.

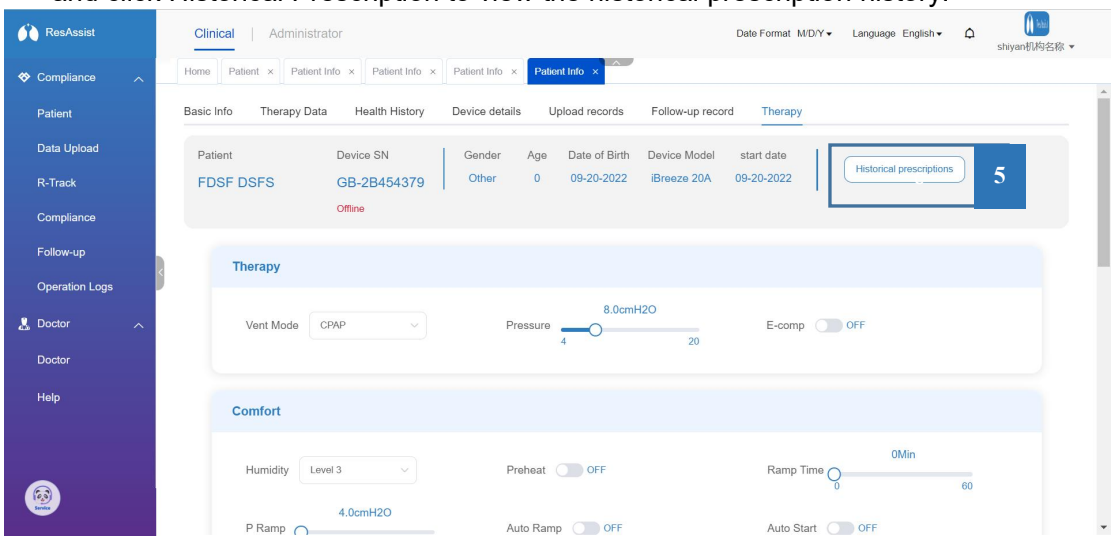
1	therapy Parameters: Pressure, Pmax, Pmin, Ti, IPAP, EPAP, IPAP Max, IPAP Min, EPAP Max, EPAP Min, E- Trigger, I-Trigger, Press ADJ, Max Ti, Min Ti, F,

	Auto F, Vent Mode, R-Care, E-Comp, VT, PS, IPR, Rise Time, Titra Time
2	Comfort parameters: Humidity, Preheat, Ramp Time, P Ramp, Auto Ramp, Auto Start, Auto Stop, IPR, Mask Type, Tube Type, P Mask Fit.
3	General parameters: Pressure Unit, Patient Info Menu, Leakage, Apnea, Mask Blocked, RR High, RR Low, Mv Low, IPAP High, EPAP Low, VT Low, Filter Change, Mask Change, Tube Change, Water Tank Change, Clinic, Maint Interval.

4. Once the parameters have been adjusted, click Issue therapy parameters to place the prescription.

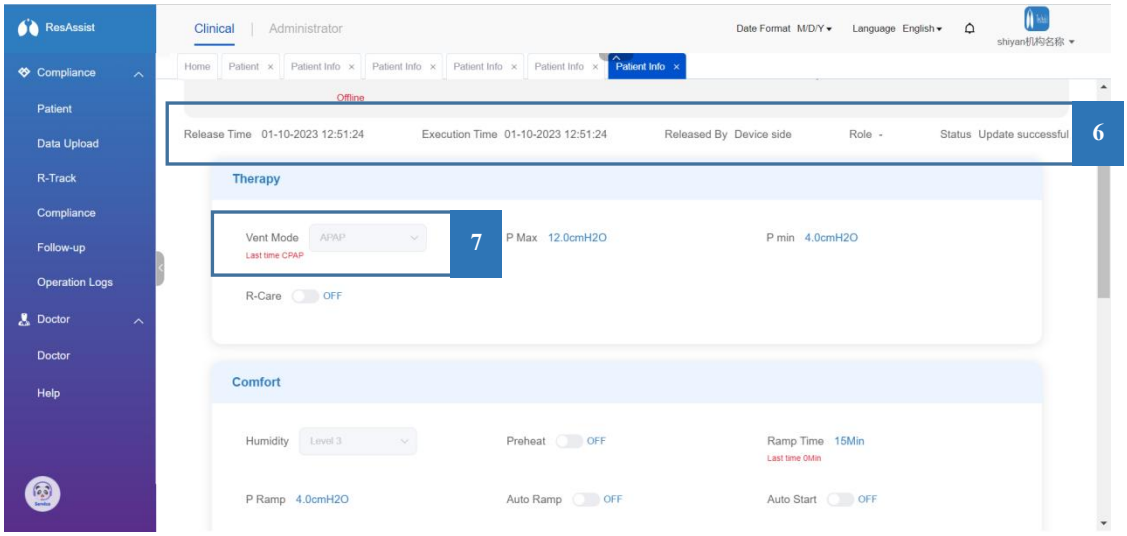


5. When a prescription is issued, a profile corresponding to the prescription is automatically generated in the cloud and transferred to the device over the network. Once the prescription has been issued, you can return to the patient's therapy details and click Historical Prescription to view the historical prescription history.

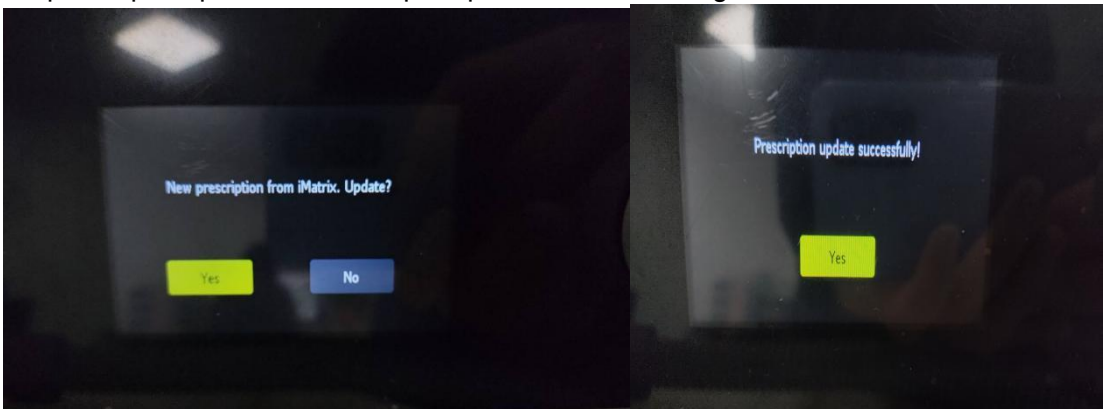


6. Click on the historical prescription record in the list to view the details of that prescription. The page will display the status of the prescription issued with the time of

application and mark the parameters that are inconsistent between this prescription and the previous one.



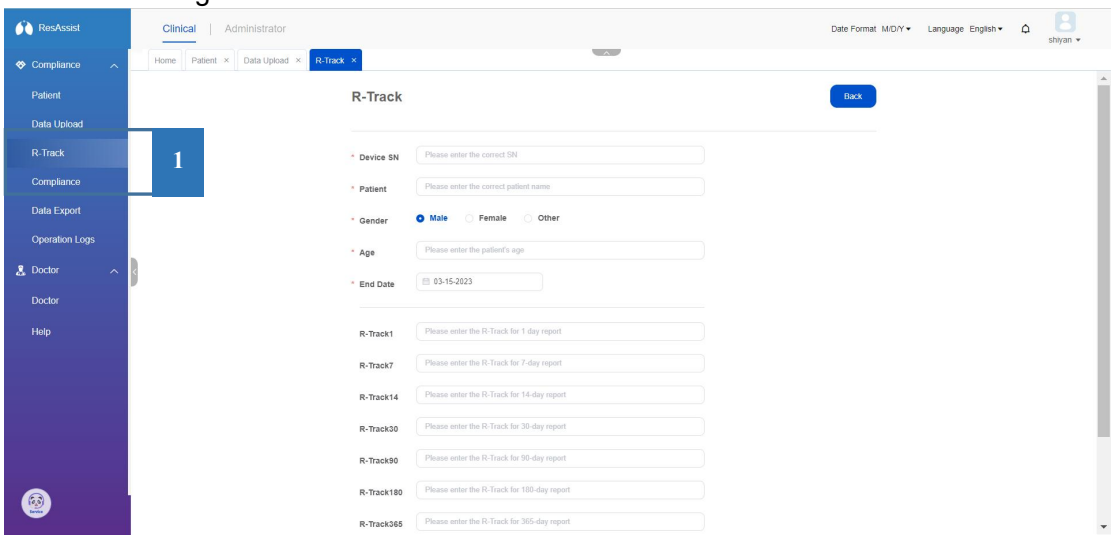
7. When the device side is powered on and connected, it will automatically receive the prescription profile from below the cloud. The patient will be reminded whether to update it or not. By clicking Yes, the device side will automatically apply the latest prescription parameters and prompt a success message.



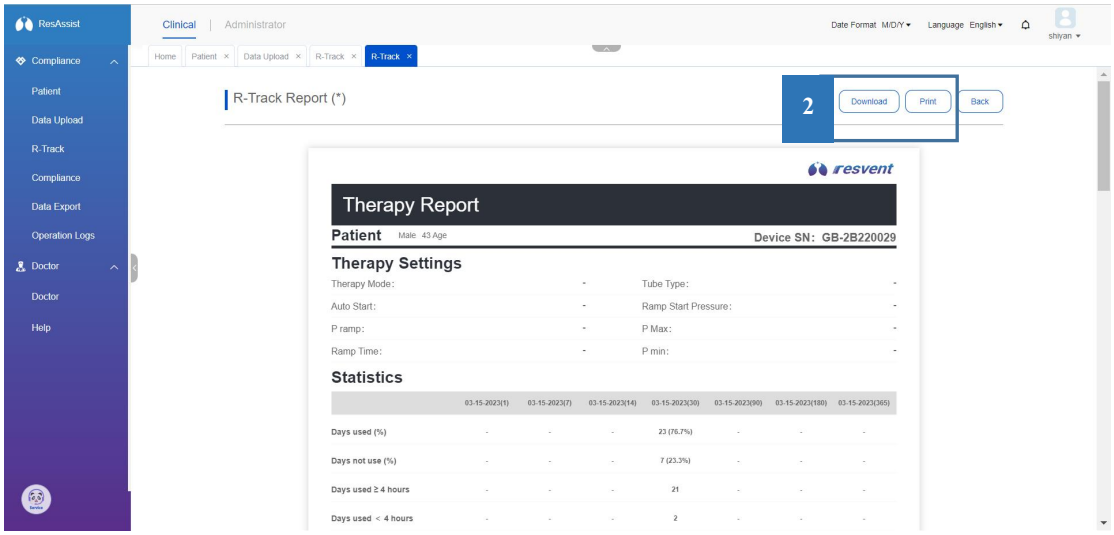
* If the device is currently ventilating when the prescription is issued, the device will automatically update and apply the prescription, which will take effect immediately after a brief cessation of ventilation.

4.6 R-Track

1. At the end of ventilation on the device side, a string of numeric/alphabetic R-Track codes will be generated, and the R-Track codes will record the therapy statistics for that period of ventilation. You can use the R-Track code to get a simple report of the patient. The R-Track interface can be accessed by clicking on the R-Track option in the left navigation bar.



2. In the R-Track interface, you need to enter the SN of the device from which the target report is generated, the patient's name, gender, age, and the report deadline date. After completing the fields, you need to enter the R-Track codes for different periods of time. The numbers labeled after each R-Track code correspond to 1 day, 7 days, 14 days, 30 days, 90 days, 180 days and 365 days of therapy statistics. You can enter more than one R-Track code, with a minimum of 1 R-Track code.



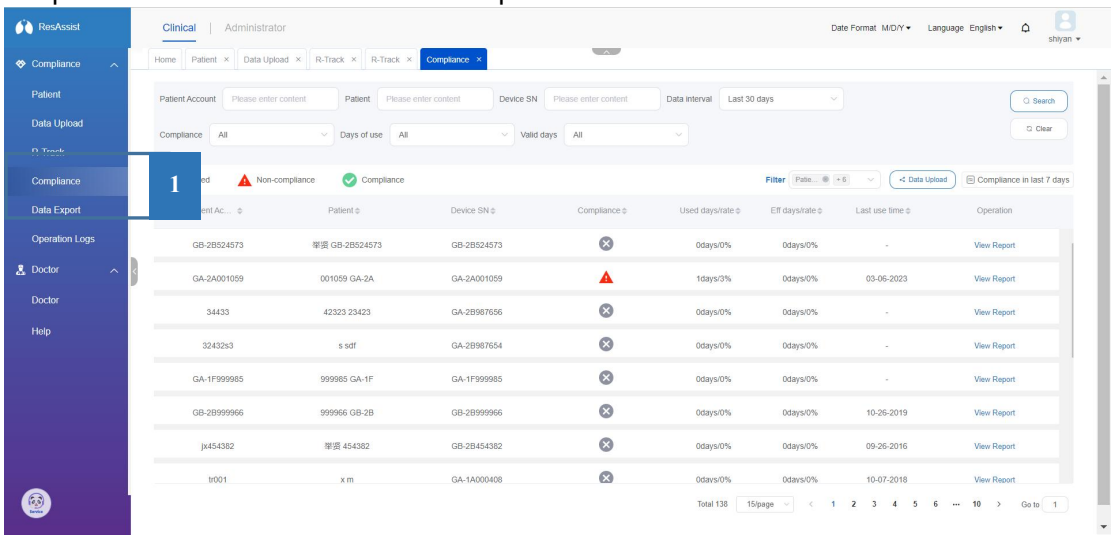
3. When you are finished, click Generate Report to generate a therapy report based on the R-Track code you filled in. The report includes therapy settings, statistical information and summary information. institutions can download or print a PDF

version of the report by clicking on Download / Print in the upper right corner of the page, as shown below:

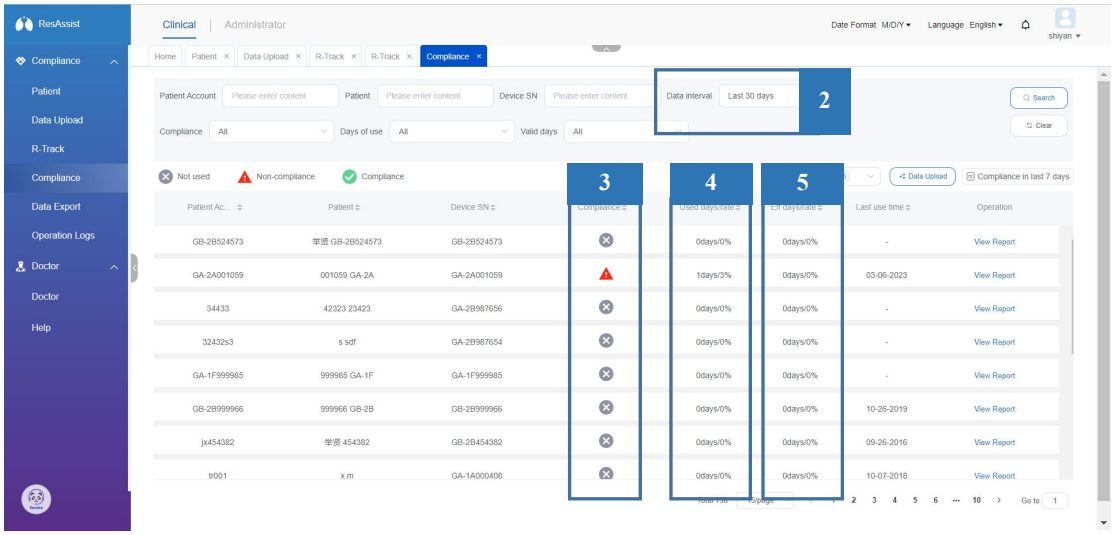
1	Therapy Settings: Therapy Mode, Tube Type, Auto Start, Ramp Start Pressure, P ramp, P max, Ramp Time, P Min
2	Statistics: Days used (%), Days not use (%), Days used ≥ 4 hours, Days used ＜ 4 hours, Average usage (days used), Average usage (days selected), Total usage, Average P95, Average Leak, Average AHI, Average RERA, Average SNI, R-Track
3	Summary: P95(cmH2O), AHI(Events/hour), Average usage(days used)(hours), Percent of days used(%)

4.7 Compliance

1. You can view patient compliance through Compliance. Click Compliance in the left navigation bar to access the compliance list. This list displays the patient's compliance performance over the selected time period.



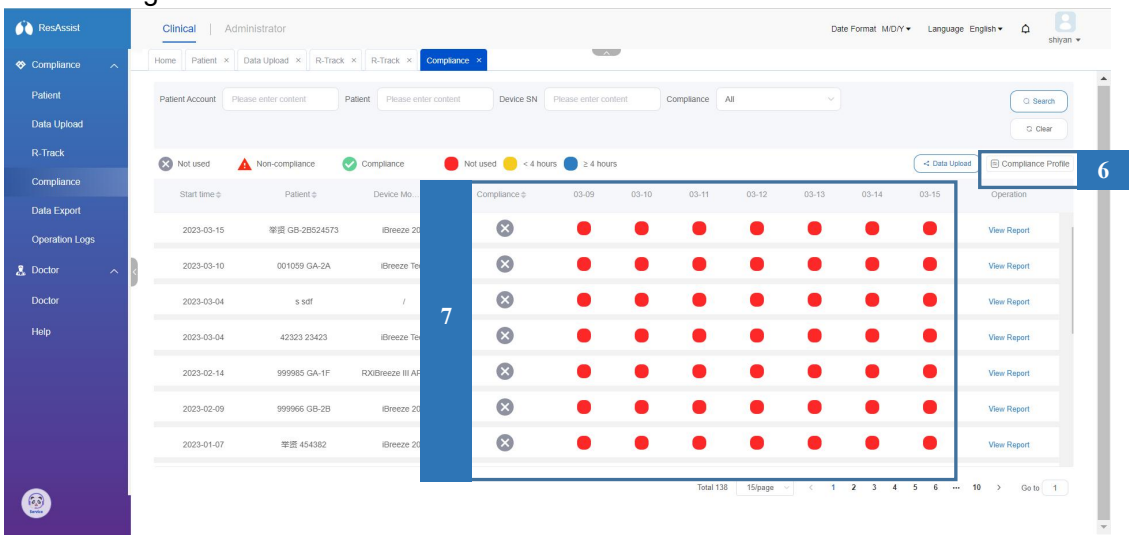
2. The compliance list defaults to showing patient compliance performance for the last 30 days of the current date. You can toggle the compliance calculation interval within the Data Interval item. The list will display the patient's compliance performance based on the currently selected data interval.



3. The rules for each option and field in the dependency list are as follows:

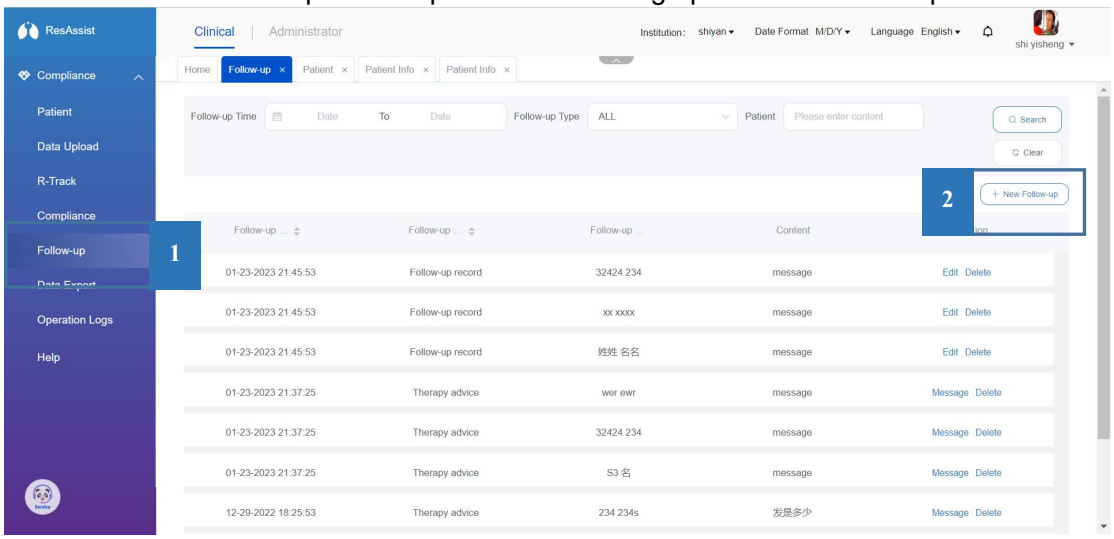
2	Data Interval	compliance Calculation Interval, with options for Nearly 7 Days, Nearly 30 Days, 90 Days Prior to Activation Date, Customized
3	Compliance	compliance status, labeled as Compliance (green) if the patient has used the device for more than 4 hours for days ≥ 70% or more of the days in the compliance Calculation Interval, and vice versa, labeled in Non-Compliace (yellow). If the patient did not use the device during the compliance calculation interval, it is labeled with Not Use (red).
4	Used Day / Rate	Days of Use, shows the number and percentage of days the patient has used the device during the current compliance calculation interval.
5	Eff Day / Rate	Effective Days, shows the number and percentage of days the patient's device was used for more than 4 hours during the current compliance calculation interval.

4. In the compliance list, you can click Compliance in last 7 days to view the patient's daily compliance performance for the last 7 days of the current date. The icon meanings are consistent with the rules above.



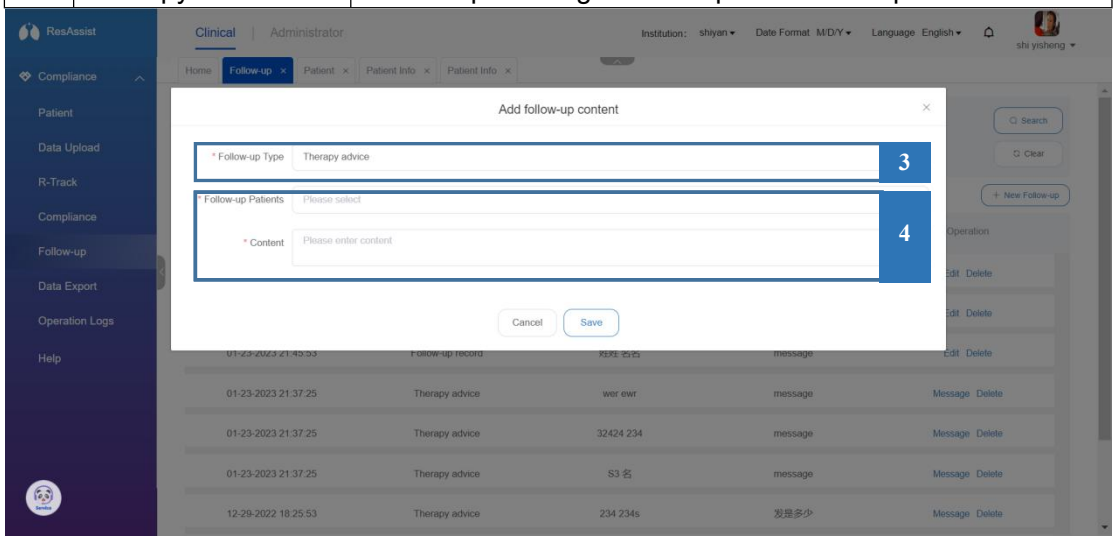
4.8 Follow-up

1. You can follow up a patient through Follow-up. Click Follow-up in the left navigation bar to access the Follow-up list. This list displays the patient's history of follow-ups. Click New Follow - up at the top of the list to bring up the New Follow-up window.



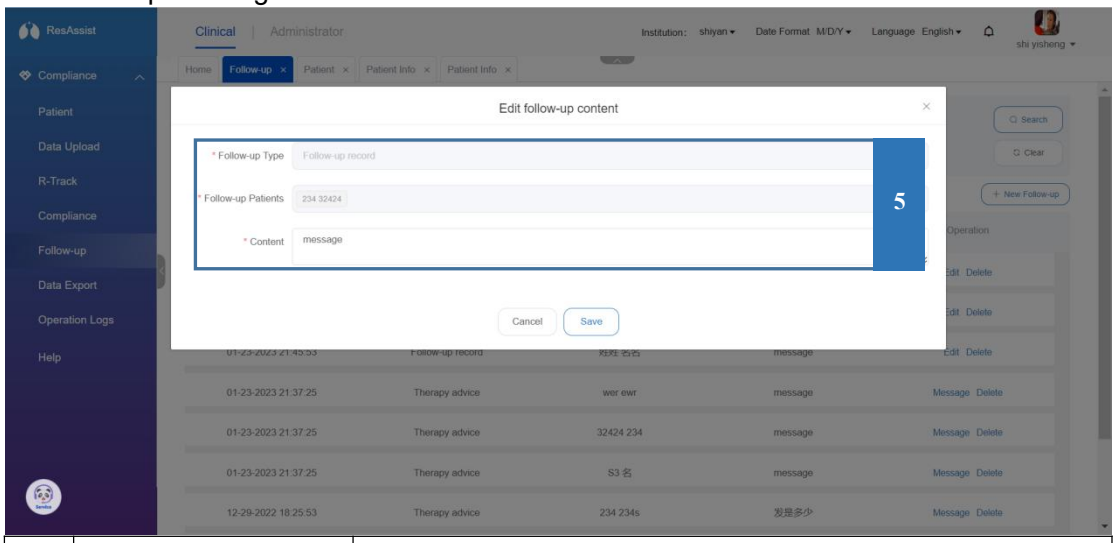
2. In the Add Follow-Up window, you can select the type of follow-up and enter the patient and content of the follow-up. If you select a follow-up type of therapy Recommendation, the follow-up message will be pushed to the patient and the patient will be able to view it in the Message Center; if you select a follow-up type of Follow-up Record, the follow-up message will not be pushed to the patient and will be viewed by you only.

1	Follow-up Record	Follow-up messages are for your review only
2	Therapy Advice	Follow-up messages will be pushed to the patient.



3. Once a follow up visit has been added, you can view the follow up visit in the list. Depending on the type of follow up, the action bar of the follow up record will be displayed as Edit or Message, and a popup window will be displayed to show the

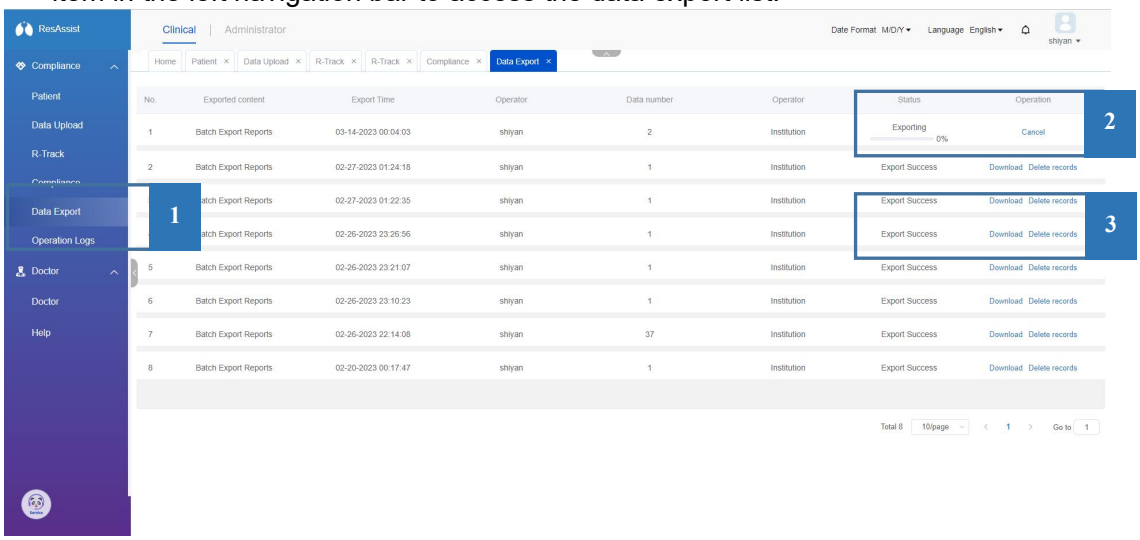
content of the follow up when you click on it. At the same time, you can edit/resend the follow up message in the window.



1	Follow-up Record	Operation: Edit, re-enter the content and click save to complete the changes.
2	Therapy Advice	Operation: Message, retype the content and click Save to resend the message to the patient.

4.9 Data Export

1. You can manage the history of batch exported patient reports. Click the Data Export item in the left navigation bar to access the data export list.



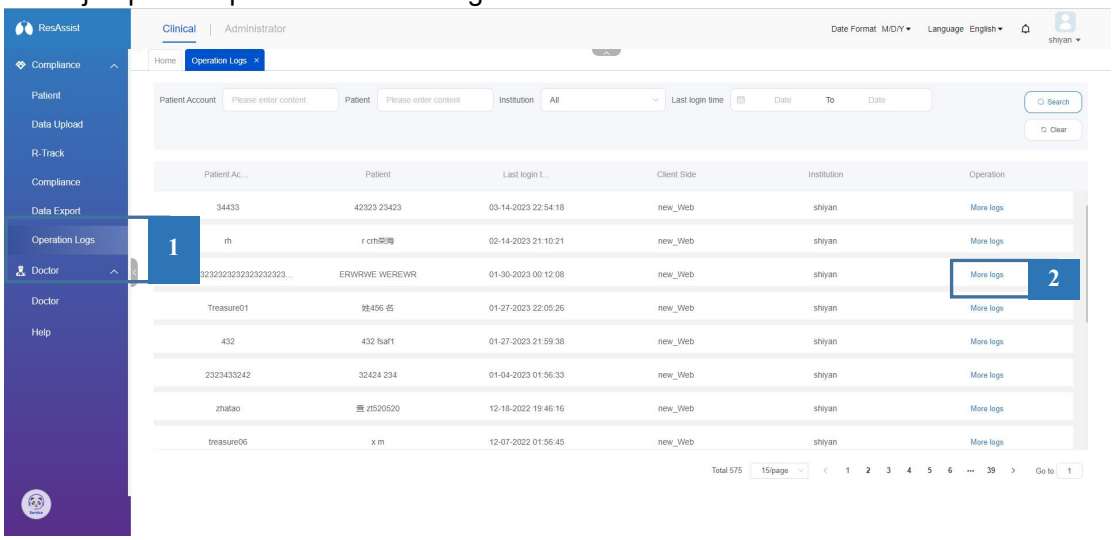
2. This list displays your historical batch export report history, as well as the current progress of the report export in progress. The list status is as follows:

2	Exporting	Status labeled Exporting, real-time display of the progress bar; Operation can be canceled.
3	Exported	Status labeled Export Success / failure, Operation optional re-download / delete

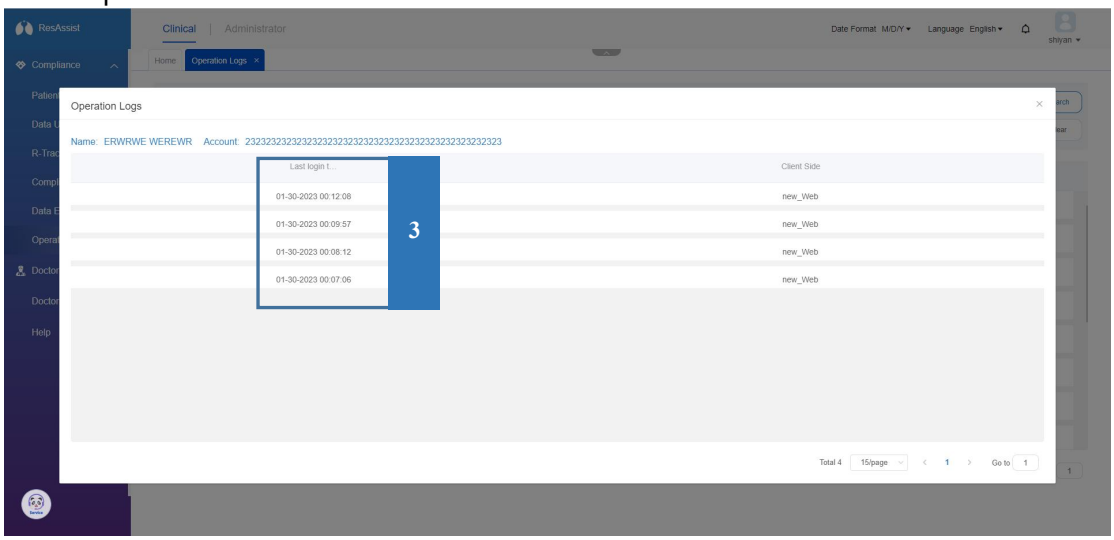
* Exported reports are valid for download for 3 months, if more than 3 months, the report needs to be re-exported for download.

4.10 Operation Logs

1. You can view patient login logs. Click Operation Logs in the left navigation bar to view a list of patient login logs. The list shows the last login time, login port, and institution for each patient. Click More Logs in the action bar on the right side of the list to jump to the patient's detailed log window.

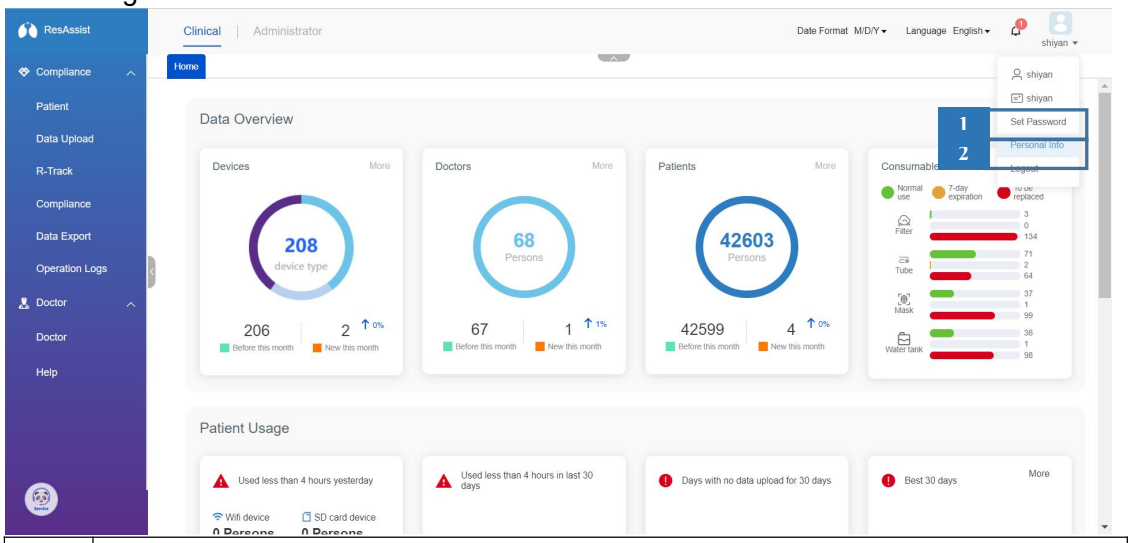


2. The Detailed Records window will show the historical login logs with login ports for this patient.



4.11 My information

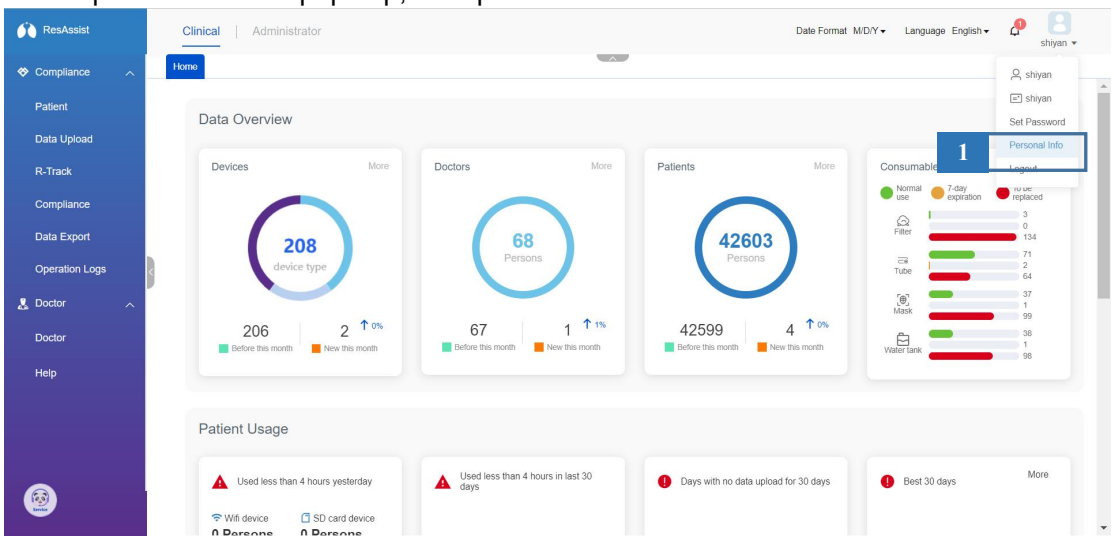
1. In the personal Center, you can complete a series of operations related to account management as follows:



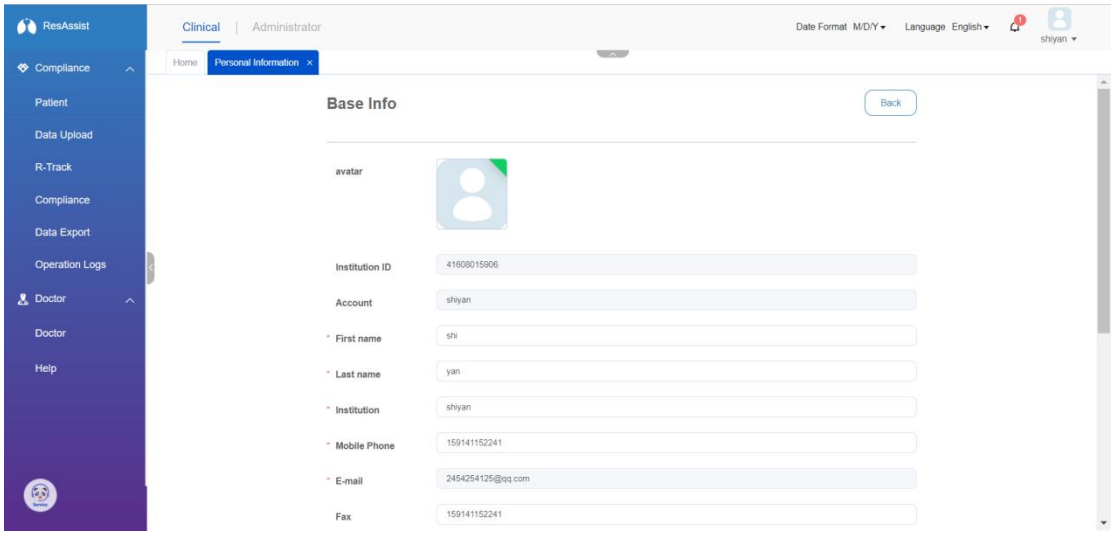
1	Change Password: Change the password of the current account
2	personal Information: Modify the personal information of the current account

4.11.1 Edit Information

1. Click the Avatar button on the right side of the top navigation bar, and in the drop-down box that pops up, click personal Info.



2. After entering the personal information editing interface, the institution can upload the avatar, edit Basic/Contact information, and click Submit to submit and save after finishing the modification.


ResAssist
Clinical
Administrator
Date Format M/D/Y
Language English
shiyan
Compliance
Patient
Data Upload
R-Track
Compliance
Data Export
Operation Logs
Doctor
Doctor
Help
Home
Personal Information
Base Info
Back
avatar
Institution ID
41608015906
Account
shiyan
First name
shi
Last name
yan
Institution
shiyan
Mobile Phone
159141152241
E-mail
2454254125@qq.com
Fax
159141152241

5 Patient Functions

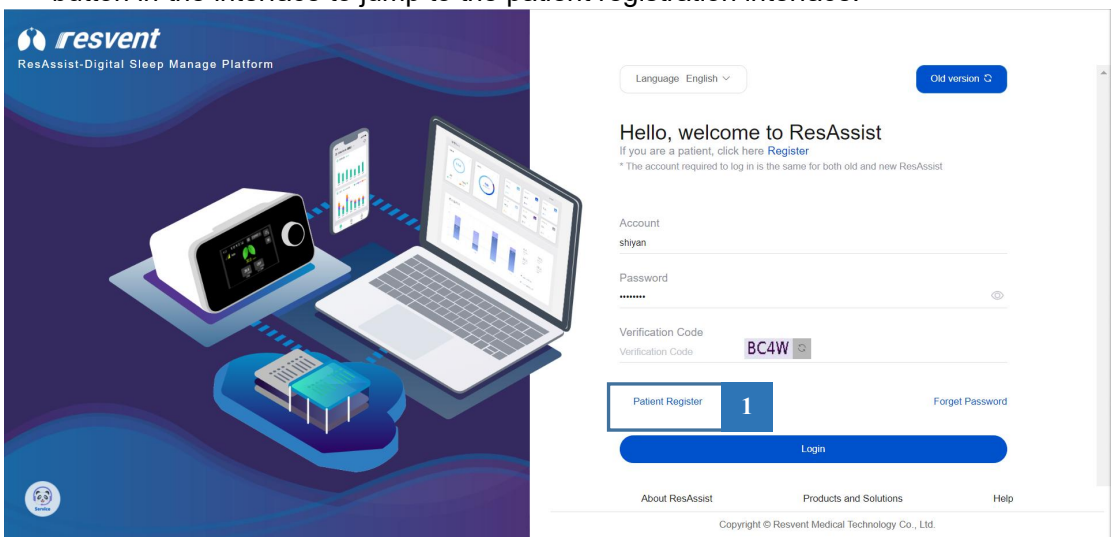
5.1 Patient Main Functions

The ResAssist Cloud Platform for Patient Rights includes the following key features:
Account: Register, login and reset password.
Report: View and print therapy reports
My Device: View device information
Health History: View health history
SD Upload: Upload therapy data.
Help: View ResAssist help and support information.
My Information: View and manage basic account information.

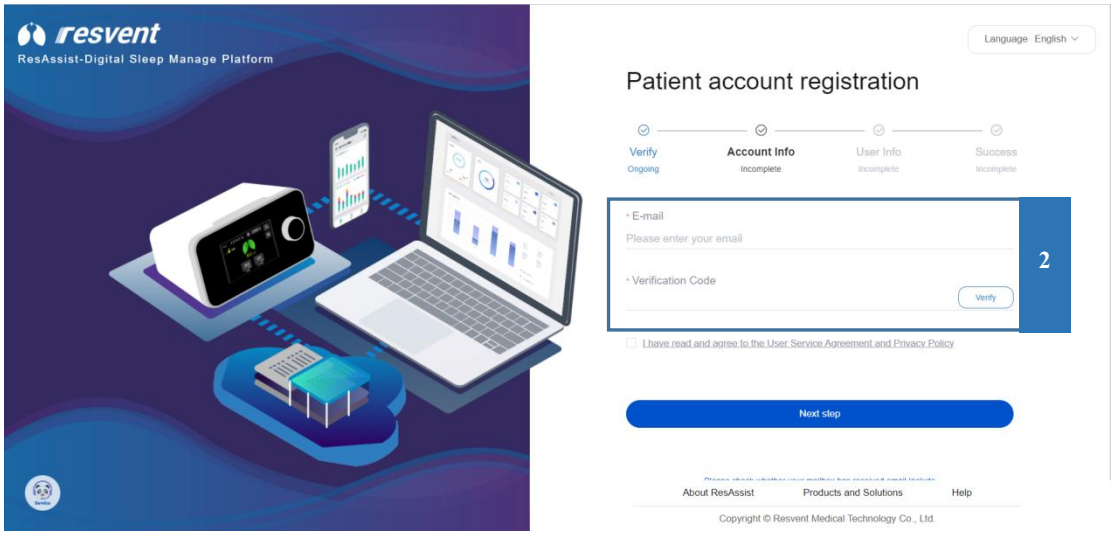
5.2 Registration

You will need to register for a ResAssist account and access the system with that account.

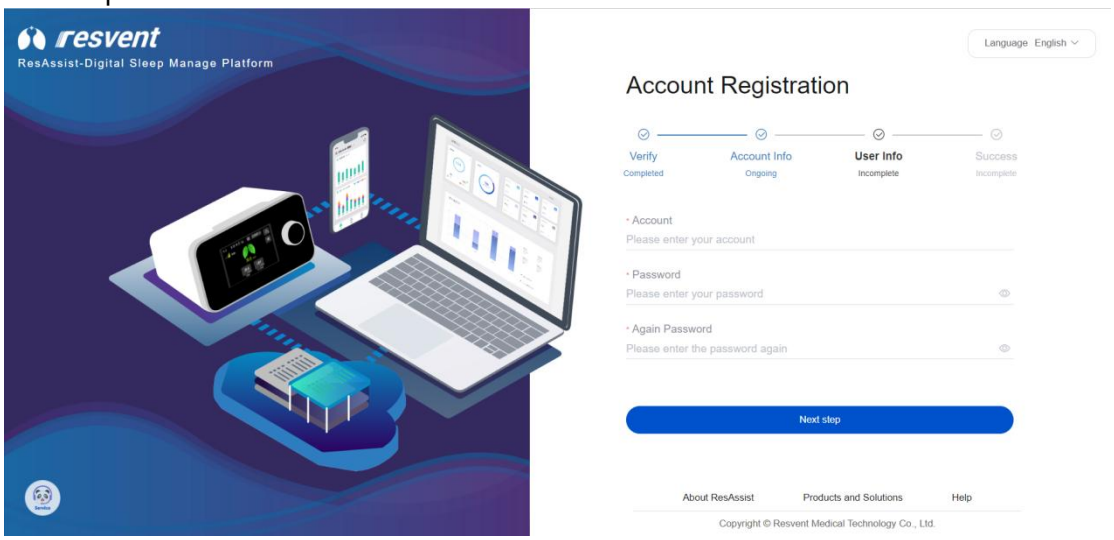
1. Copy the ResAssist address: https://resassist.resvent.com/, paste it into the Google address bar, and enter to enter the system login page. Click the Patient Register button in the interface to jump to the patient registration interface.



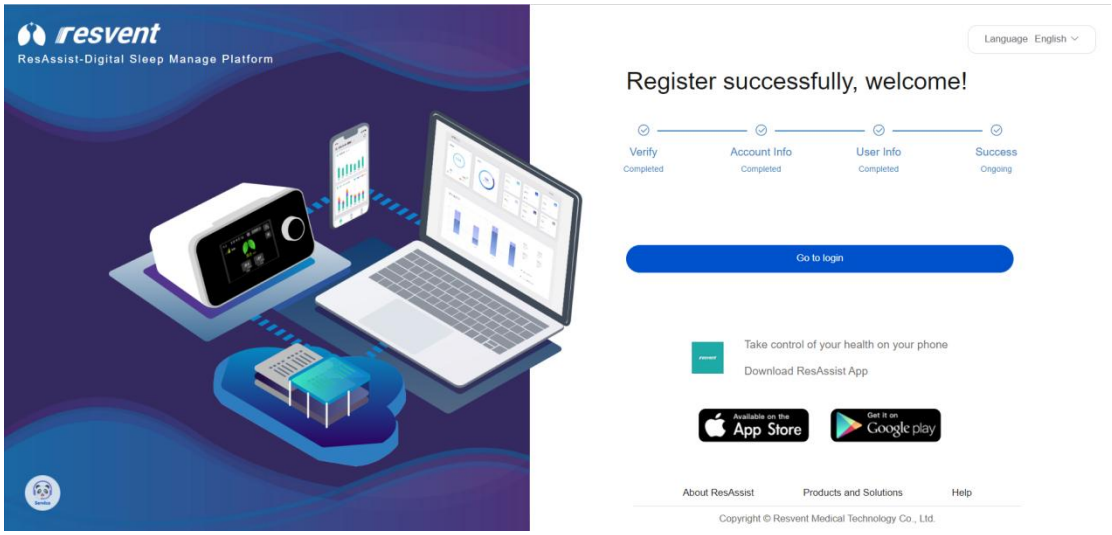
2. In the patient registration interface, enter your usual e-mail address and click Verify to receive and fill in the verification code from ResAssist, check the user agreement at the bottom, and then click Next Step to complete the e-mail verification.



3. After the mailbox verification is completed, please create your account and password. The account should be 2~50 characters and the password should be 6~16 letters and numbers. After confirming your password twice, click Next Step to complete the account creation.



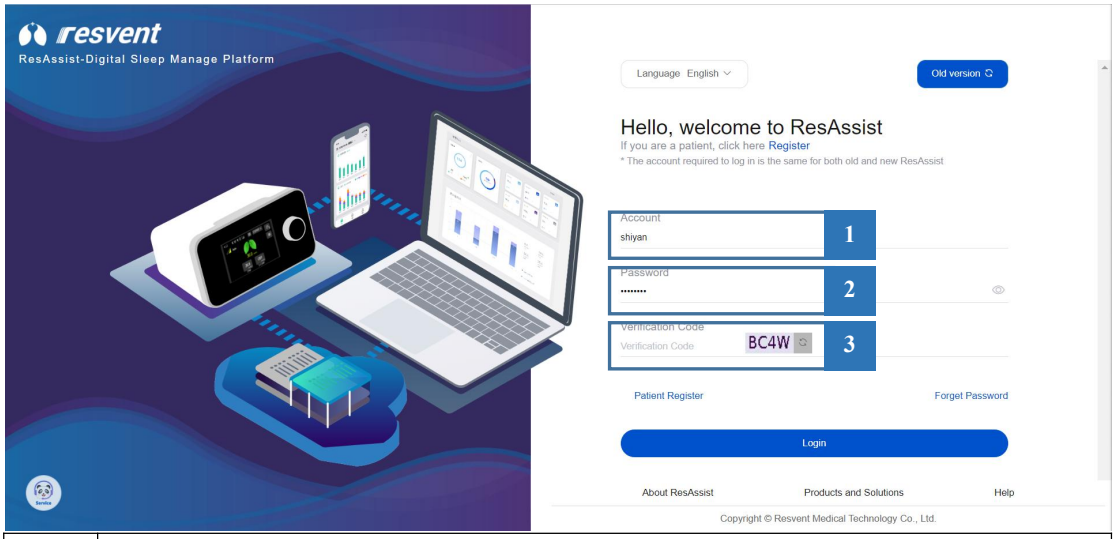
4. After the account is created, please fill in your personal information, including your First Name*, Last Name*, Gender*, Data of Birth*, Phone*, Device SN*, Country, Time Zone, Start Date*, and the items with * are required. After you finish inputting, the system will automatically get the device model and institution according to your Device SN. After confirming that there is no error, click Next Step to complete the registration.



5.3 Login

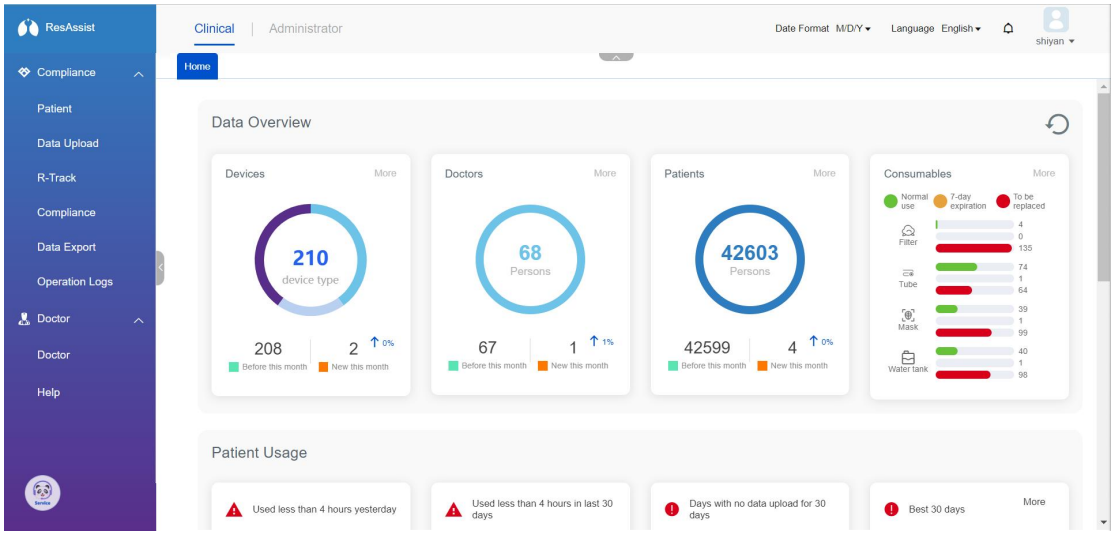
You can use your ResAssist account to log in, and you can use the system functions after logging in.

1. Copy the ResAssist address: https://resassist.resvent.com/, paste it into the Google address bar, and enter to enter the system login page. On the login page, please enter the ResAssist account and password assigned to you by the manufacturer, and fill in the verification code.



1	Account Input Box
2	Password input box
3	CAPTCHA input box

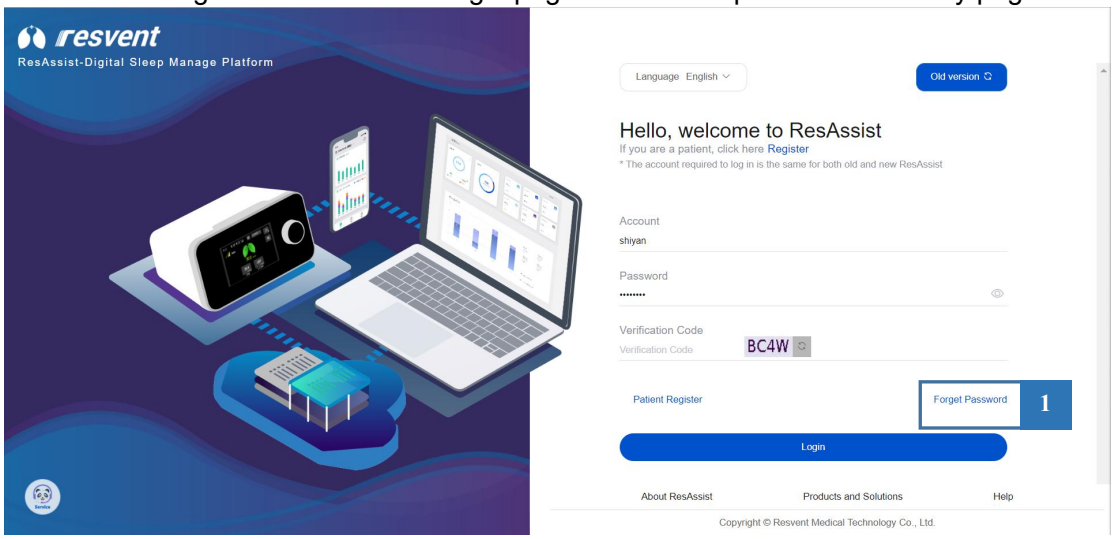
2. Once the account, password and verification code have been entered, click Login to jump to the Home Page.



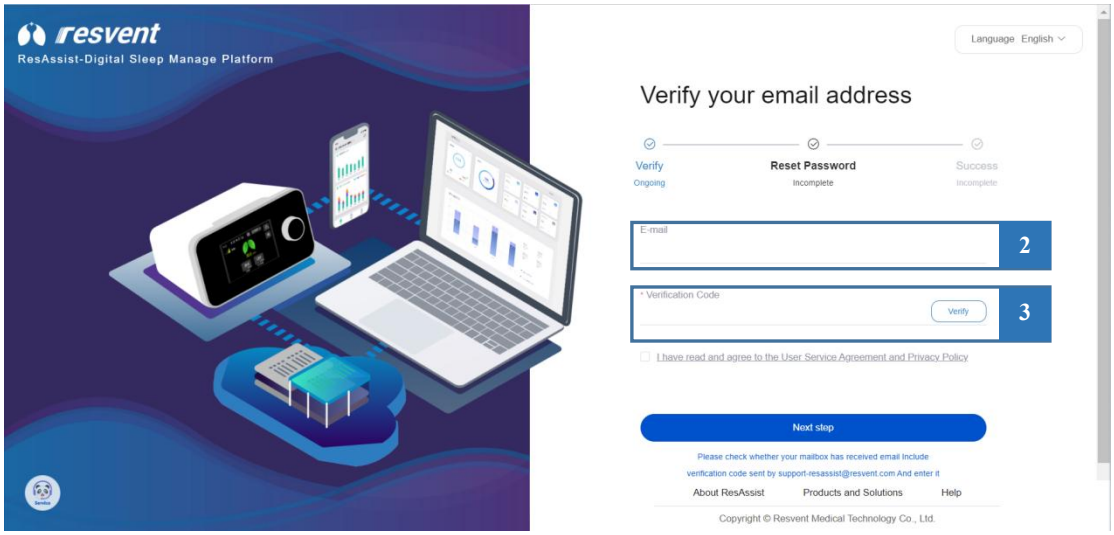
5.4 Forgot password

When you forget your password, you can reset your ResAssist password by retrieving it.

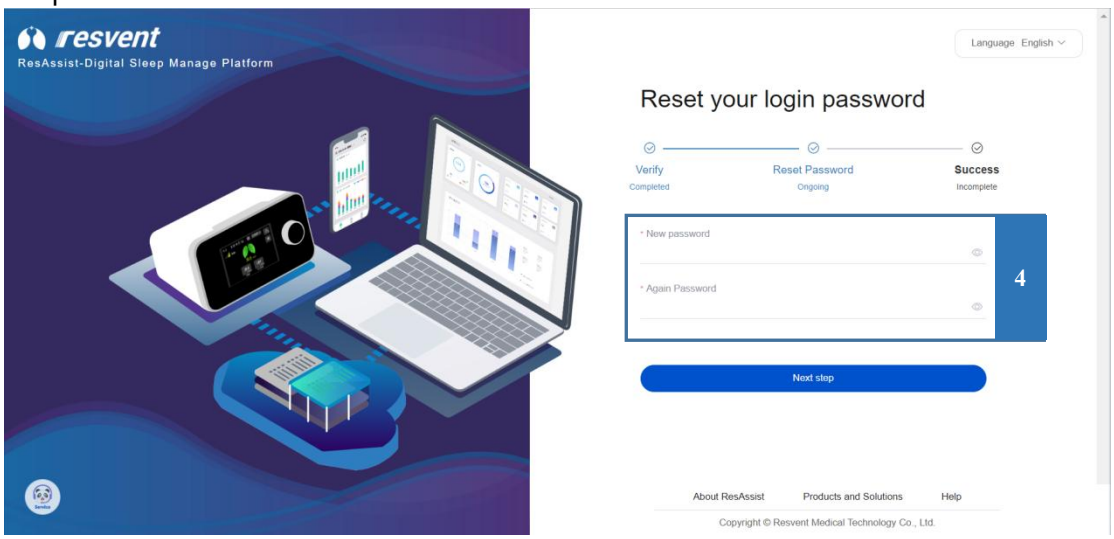
1. Click Forget Password in the login page to enter the password recovery page.



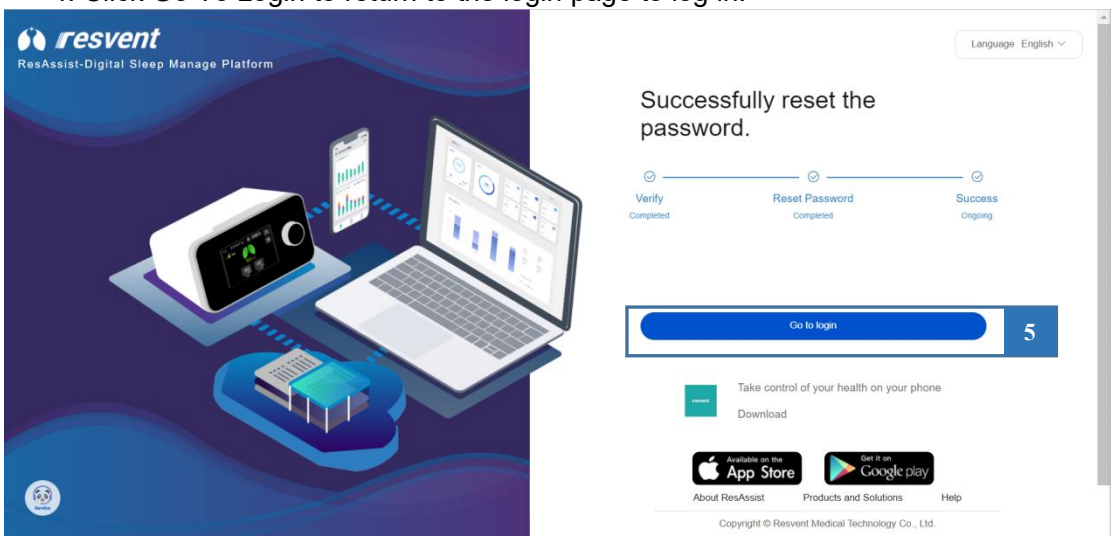
2. Enter the e-mail address you entered during account registration and click Verify, the system will send a link to reset your password to the specified e-mail address within 30 seconds. After receiving and entering the verification code, click Next Step to enter the password reset link.



3. After entering and confirming the new password, click Next Step to complete the password reset for the account.

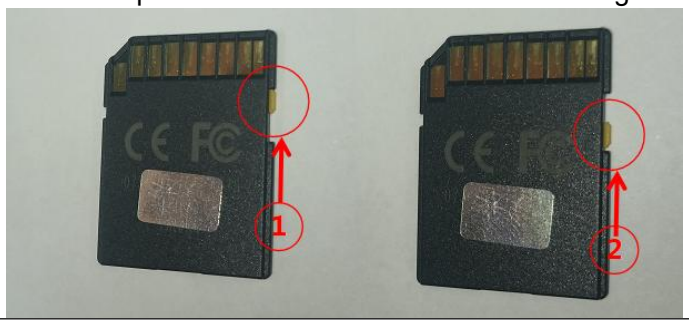


4. Click Go To Login to return to the login page to log in.



5.5 SD Upload

1. You can upload patient therapy data via the SD card and generate therapy reports for the corresponding time periods from the uploaded data. You need to install the SD card to the card reader correctly and make sure that the switch status of the SD card is on; data cannot be imported when it is off. As shown in the figure below.

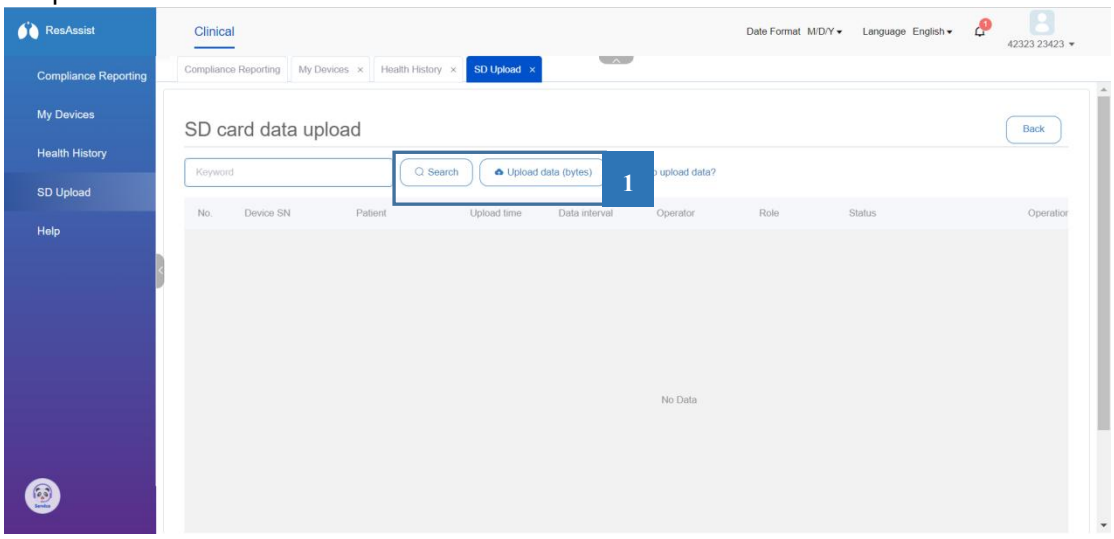


1	On state
2	Off state

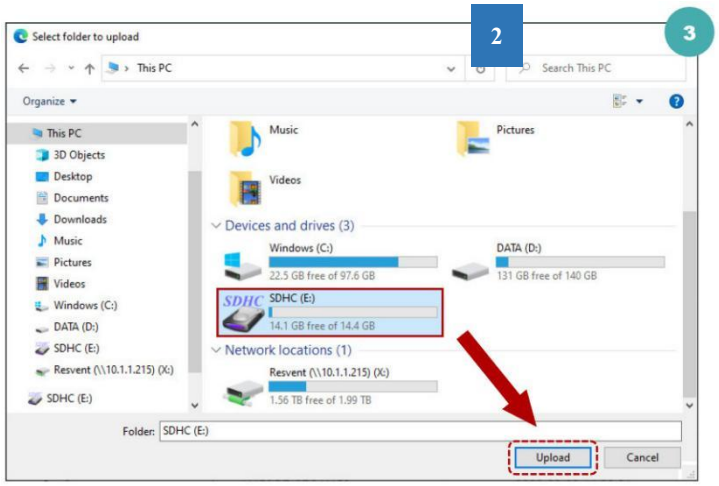
2. Insert the SD card according to the card reader's insertion port marking and install the SD card into the card reader. After installation, insert the card reader into the USB port of your computer.



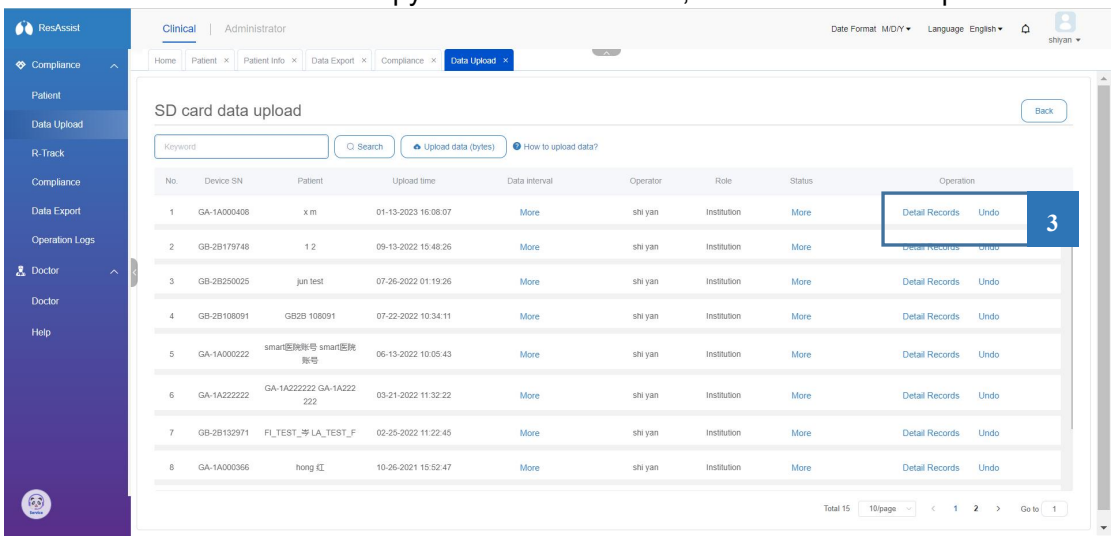
3. Click SD Upload on the left side of the navigation bar to jump to the data upload interface. Click the Upload Data (Bytes) button in this interface to bring up the local path selection window.



4. In the Local Path Selection window, check the directory where the SD card is located, or select the Therapy folder within the directory and click Upload to upload.

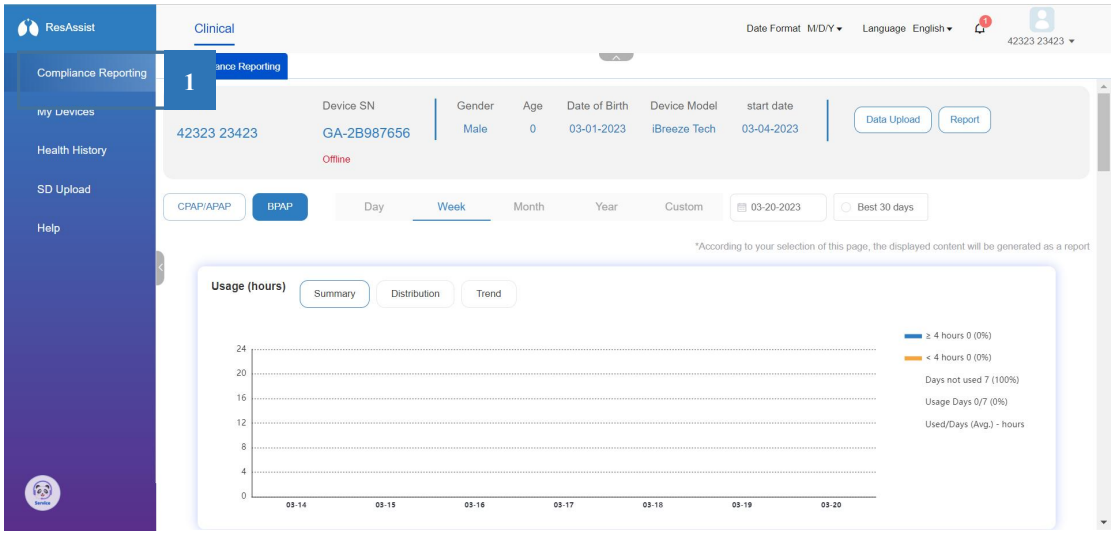


5. During the data upload period, you can view the progress of the upload in the Data Upload list, and once the upload is complete, the data for that time period will be used as the basis for generating therapy reports. Click Detail Record / Undo in the list to view the details of the therapy data for that session, or to withdraw the uploaded data.

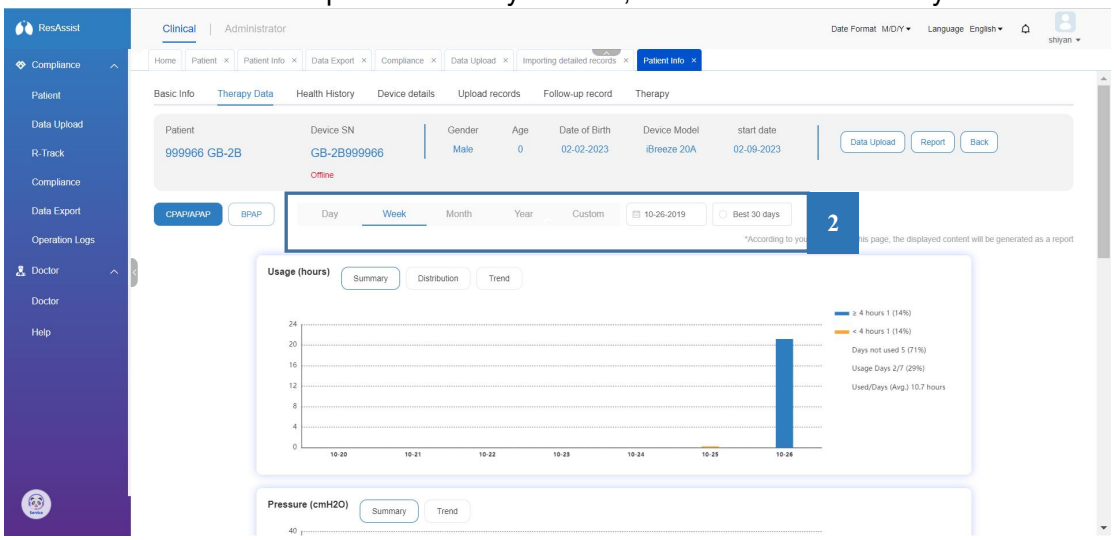


5.6 Report

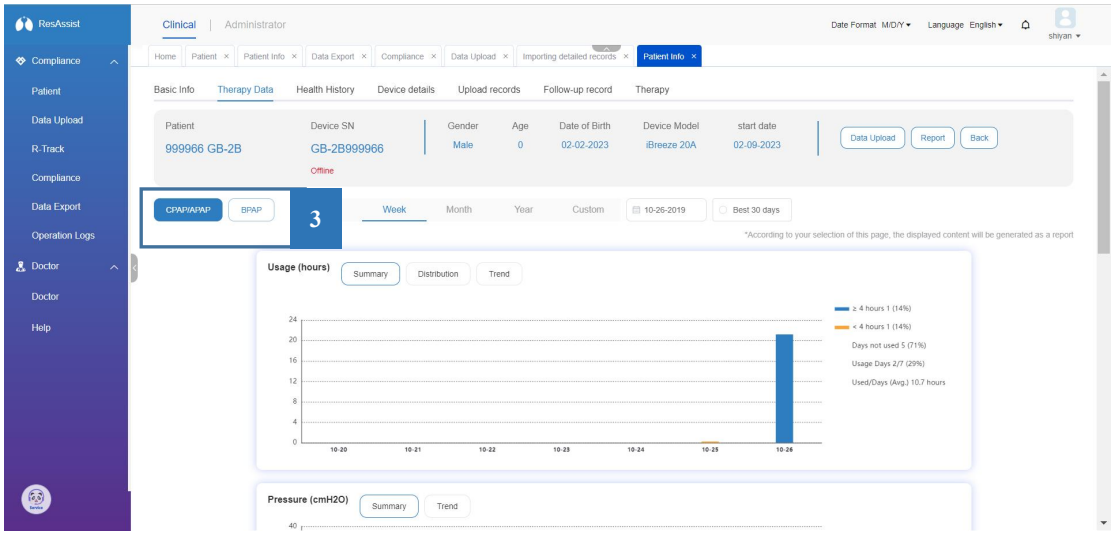
1. Click Report in the left navigation bar to access the therapy Data page.



2. You can switch between Data Interval and therapy Mode to view the performance of your therapy data. Click on the default option of Data Interval to view your data for a single day, the last 7 days, the last 30 days, and the last 1 year from your last use date, or customize the time period to view your data, which cannot exceed 1 year.



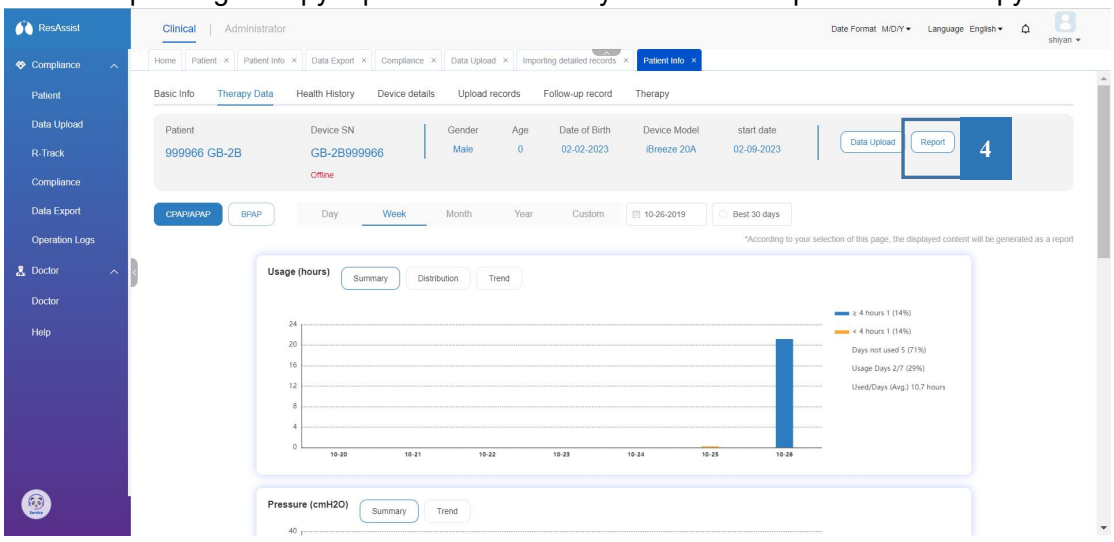
3. At the same time, you can switch the therapy mode according to the model, the therapy parameters displayed in this interface will be switched with the CPAP/APAP or BPAP therapy mode, and the corresponding summary, distribution, and trend information will be displayed in the chart.



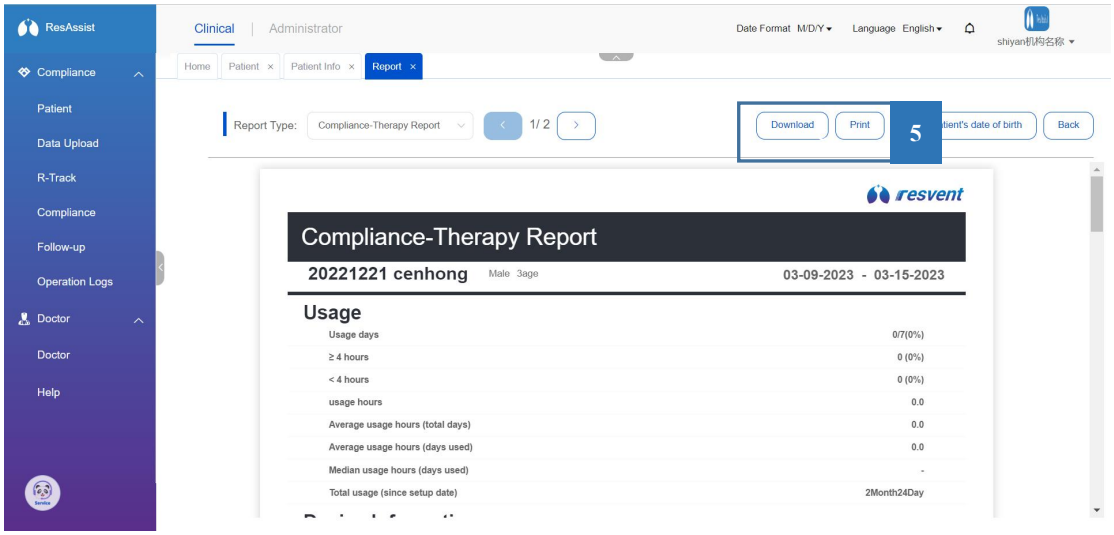
4. The parameters corresponding to the CPAP/APAP and BPAP therapy modes are shown below:

1	CPAP/APAP: Usage (hours), Pressure (cmH2O), Leak (L/min), Event
2	BPAP: Usage (hours), AHI (event/hour), IPAP (cmH2O), EPAP (cmH2O), Leak (L/min), Tidal Volume (ml), Minute Ventilation (L/min), Respiratory Rate (bpm)

5. When the preview is complete, click Report in the interface to generate a corresponding therapy report for the currently selected time period and therapy mode.

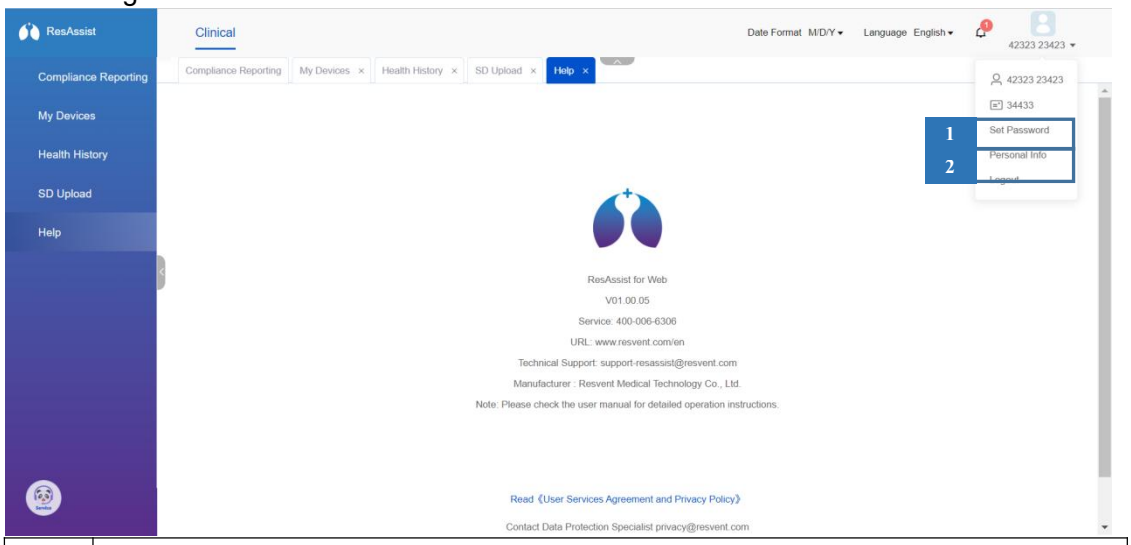


6. You can click the Download / Print button to download or print the contents of the currently generated report.



5.7 My information

1. In the personal Center, you can complete a series of operations related to account management as follows:



1	Change Password: Change the password of the current account
2	personal Information: Modify the personal information of the current account

6 Network Security

6.1 ResAssist cloud platform data backup\recovery process

6.1.1 Data backups

① Create a cloud database (RDS);
② Set up an automatic backup policy, and set it to backup once a day;
③ After completing the backup, the system automatically sends a success email for confirmation;
④ Complete the data backup.

6.1.2 Data Restoration

① ResAssist technical administrator logs in to the Amazon RDS console through an authorized account;
② Select the RDS instance to be backed up;
③ Click Backup Recovery and select the point in time to be restored;
④ Perform the backup operation;
⑤ Complete the business data recovery.
Note: Data and recovery of ResAssist cloud platform is done by Resvent technical service staff, contact email: support-resassist@resvent.com

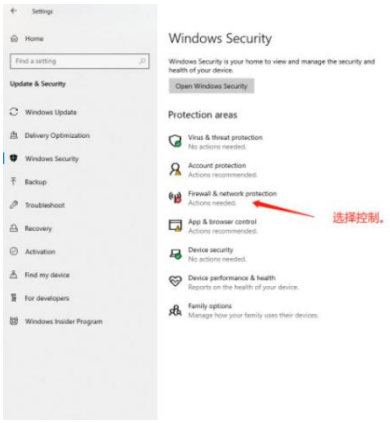
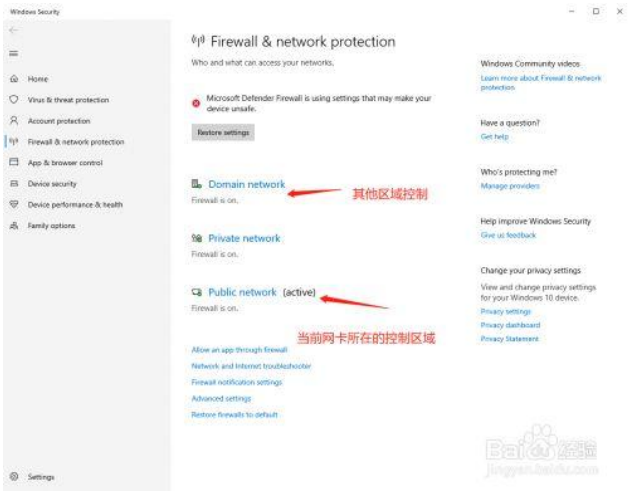
6.2 Download/Update Software

The ResAssist cloud software does not require any downloads or updates for users, so you can simply update the server software when a new version is released.

6.3 Security Configuration and Network Security Event Recognition

Note: In order to avoid network attacks when you use this system, making your relevant data subject to security threats, please make the following preparations before using this system, and if you can't solve the problem by yourself when you are subject to network threats during the use process, please contact the distributor or manufacturer in time.

No.	Configuration	Security configuration description
1	Installation of genuine operating systems	1. Before using the system on your computer, you must install a genuine Windows or Mac operating system and fix the official patches in time. 2. Regularly update the security patches of the system.
2	Installation of system access tools	1. On the computer accessing this system, it is forbidden to install applications of unknown origin, and it is necessary to go to the corresponding official website to download the genuine software for daily methods;

No.	Configuration	Security configuration description
		2. When installing Google Browser, it is necessary to go to the version released by the official Google network, and it is prohibited to download the version of unknown origin from other websites.
3	Install genuine antivirus software	Before use, you need to install commonly used licensed antivirus software and perform a full scan of your computer for antivirus.
4	Enable windows operating system firewall	1. First, open the start menu, click "Settings". 2. Then, click "update&Security", then click "Windows Security" to enter the 3. As shown in the right picture, select Firewall Control.  1. In the following page, select the area where your network card is located, or you can turn on all 3 areas. Click the blue font to enter the setting.  1. After entering, if it is off, click "off" button to turn on the firewall, if it is already turned on, it will show "on".
5	Account/Password Safekeeping	1. When logging into the ResAssist system, you may not save your password in your browser. 2. Do not tell others about your account/password. 3. If your account is kicked offline during use, please log in to your account and change your password in time to prevent others from obtaining your account/password.

No.	Configuration	Security configuration description
		4. When setting your password, please set a complex password, including letters, numbers, symbols and other complex password 5. Translated with www.DeepL.com/Translator (free version)
6	Computer Account/Password Safekeeping	Please keep your computer account and login password in a safe place and do not tell others.
7	Secure Network Connection	1. Please use the secure network of your company or home to access this system. 2. The computer used must not be connected to networks or wifi of unknown origin to avoid data theft. 3. Prohibit the use of this system on public computers with unknown network security.
8	Secure Data Use	1. When using this system, download the therapy report and do not store it in an unsecured computer or removable memory. 2. Access to mobile storage of unknown origin is prohibited, and when using storage, a full antivirus is required before use.
9	Disable access to illegal websites	Do not access illegal and untrustworthy websites through your computer to avoid being implanted with Trojan horses, viruses, etc.
10	Technical Support Email	When receiving any instructions, accounts, passwords, links, etc. about the system that are not sent by e-mail support-resassist@resvent.com, they should not be opened and used freely.

6.4 Log file management

6.4.1 Server logs

Use AWS CloudTrail to provide cloud resource log management capabilities, resource logs of all requests, including monitoring account AWS resource logs, security event logs, API call information, logs can be traced back to the security, to master all the use of cloud servers.

6.4.2 System Log

ResAssist system will save the user login log, operation log, modify the log way to analyze the platform security, the institutions can view the respective user, device use logs managed after logging into the system.

The logs are stored in the main server, the daily system will automatically use the logs of regular backups, data anomalies, log data can be restored in a timely manner.

6.5 Network security materials

No.	Configuration	Security configuration description
1	Amazon EC2:Cloud Servers	It is a Web service that provides tunable cloud computing capabilities.
2	Amazon RDS MySql	The world's most popular open source relational database, Amazon RDS is used to easily set up, operate, and scale MySQL deployments in the cloud, managing time-consuming database administration tasks such as backups, software patching, monitoring, scaling, and replication.
3	Amazon VPC:	A virtual data center on AWS that contains multiple availability zones (AZs).
4	Amazon Route: router.	With the default settings (ACLs are not restricted), subnets are interoperable with each other.
5	Internet Gateway.	IGW, the logical outlet of the VPC to the Internet, Default VPC contains an IGW.
6	VPN connection	The VPN edge connects the user's own private network of physical data centers to the VPC, and the routing is private network routing for private network connectivity.
7	Security Group	Equivalent to EC2 instance firewall, one instance can be associated with five security groups, specifying end restrictions on the traffic originating side, inbound and outbound settings
8	NAT Gateway	Proxying a group of servers within a private subnet, all external requests from the proxied servers are sent through the NAT gateway, so that the request IPs seen by the target service are also the IPs of the NAT gateway.
9	Subnet	Subnet segments are divided within the VPC, and subnet security is achieved through security control lists (ACLs).
10	Routing Tables	Contains a set of forwarding rules, known as routing entries, that are used to determine the forwarding of traffic. A subnet is associated with a routing table, and a routing table can be associated with more than one subnet. clear determines whether traffic can be forwarded to the Internet gateway (IGW) or VPN network gateway (VGW).

6.6 Product Network Ports

No.	Port Name	Description
1	User Login	The user logs into the system through the ResAssist login page, using an account password and verification code.

2	SD card data upload	The user uploads the SD card data from the patient to the patient profile through the web interface.
3	Ventilator data upload	Ventilator Wifi/Gsm networking method to upload therapy data to the patient file.
4	Remote device parameterization	The doctor sets the device parameters remotely via the Web, sends down the configuration file to the ventilator, and updates the configuration according to the prompts after the ventilator is started.
5	Add patient	Service institution \ Doctors add patient information and bind the ventilator SN through the Web side.
6	Add Institutions	Institutions can add lower level branch institutions information.
7	Add Doctor	Institutions can add doctor account information.
8	Send Message	Institutions send reminder messages to doctors and patients.
9	Modify personal information	After logging in, users can access the personal Information Center to modify their content.

6.7 Network Security Incident Handling

No.	Event	Handling method
1	User password leakage	The system account is a single sign-on mode, if the user is kicked out by other users in the process, the account password may be leaked, in order to ensure the security of user data, you need to log in to the account as soon as possible to change the password.
2	SSL certificate failure leads to untrustworthy website access	In order to ensure the security of user data in transmission, when this reminder appears, please contact the technical support of the platform in a timely manner and do not continue to log in to use.
3	When the computer is invaded by a virus	Do not continue to use this system, you need to reinstall the operating system or a full anti-virus computer, when the computer is guaranteed to be safe and reliable, then use it again.
4	Google browser is implanted with malicious plug-ins	You may not continue to use the system. You may uninstall Google Chrome or remove it with a virus-checking program to ensure that the browser is safe and secure before continuing to use the system.
5	When using the system, the interface appears to be garbled	When the user is using the system, the interface appears to be garbled or unknown abnormal prompts, please suspend the use of the system, the system to carry out a comprehensive anti-virus, to prevent the browser has been

		implanted with malicious plug-ins.
6	The system is very slow	When accessing the system is very slow or the login page does not open properly, you need to contact the distributor or manufacturer to feedback the problem.
7	Unusual messages are received in the system	When you receive an abnormal message in the system message center, you need to contact the dealer or manufacturer to feedback the problem.
8	Abnormal update message appears on the device	When a doctor does not advise that configuration parameters need to be changed remotely, contact the distributor or manufacturer for prompt feedback on the problem.

7 Common Troubleshooting

Since this product is independent software running on a general-purpose computer system, the environment should be free from static electricity, dust and humidity, the voltage should be kept stable during use, illegal power outages are prohibited, and the power supply socket should be connected to a ground wire.

Do not install games and other programs not related to this software in general-purpose computer systems, and check for viruses before using external floppy disks or CD-ROMs.

When shutting down the computer, please exit this software first, use WINDOWS to shut down the computer normally, and power off before leaving.

No.	Common Failures	Problem Analysis	Processing Methods
1	Patient unable to reset password	Forgot your registered email address and can't reset your password	You can contact the technical support of the platform to get the account registration email address after providing the login account.
2	Slow access to the system	Users are accessing a slower network resulting in	Check whether the network speed used by the user is normal, and switch to a faster network for access.
3	Interface style is messed up	The user's computer browser loading is not style incomplete, resulting in an incomplete display.	Ensure that the network is unobstructed and refreshing the interface can solve the problem.
4	therapy data cannot be uploaded	The device is not connected to the network and cannot access the network	Check whether the device can connect to the network normally, please refer to the ventilator device network function setting for the device network connection method.
5		Device is not bound to patient account, therapy data cannot be uploaded	Just contact the dealer to bind the patient's account information to the device SN number.
6		SIM card without network traffic	Contact the dealer to solve the problem of no traffic on the SIM card, and the traffic can be renewed.
7	Registration can not receive the verification code	Email blocked by spam	When the email verification code cannot be obtained, check whether it is blocked by spam in the email. Make sure the e-mail address is correct.

No.	Common Failures	Problem Analysis	Processing Methods
			Still can not be solved, you can contact the platform technical support.
8	Patient can not bind the device	Devices that need to be bound are not added	Contact the technical support of the platform to add the SN information of the device to be bound.
9		Added device binding to other patients	Go to "Device" in the system to search the specified device, whether it is bound to other patients, if it is bound, then unbind it.
10	Abnormal deletion of patient data	User accidentally deletes normal data	User data deletion will have a second confirmation, in order not to violate the privacy of the user's personal information, when the user voluntarily deleted the data server will no longer be retained, if it is anomalous deletion must be restored, you need to contact the manufacturer to feedback the problem, authorize the manufacturer from the history of the backup will be deleted to restore the data.
11	Unable to view the latest data	Latest therapy data shown uploaded to the server.	Check whether the data of the last therapy is saved in the device; If you confirm that the latest data of the device has not been uploaded, please check whether the network is normal, if there is an abnormality in the network, please repair the network connection to upload the data to the server normally; If it is not resolved, please contact the distributor/service provider or the manufacturer.
12	SD card not recognized, data import interface is empty	SD card is not properly installed.	Please refer to section 6.5.3.1 SD Card Installation Methods to determine if the SD card is installed correctly, if it is not inserted correctly, re-insert the SD card into the card reader, and then the card reader can be inserted into the

No.	Common Failures	Problem Analysis	Processing Methods
			computer again.
13	SD card data cannot be read	The SD card is in the off state.	Check whether the switch state of the SD card is "off", if it is "off", please change the SD card to "on", and insert the card reader into the computer correctly, and then insert the card reader into the computer again. Then insert the card reader into the computer again, please refer to section 6.5.3.1 SD Card Installation for details.
14	SD card damaged	The SD card hardware is damaged or the SD card is damaged by pulling it out directly without exiting it properly.	If the SD card is damaged as a result of illegal operation, please contact Resvent's designated after-sales technician to re-replace the SD card with the specified model according to professional instructions. When using the SD card to import data, please be sure to perform the normal USB ejection process if you want to remove the SD card.

When leaving the computer, please log out of this system login account or lock the computer system page.

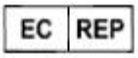
When ResAssist malfunctions, please refer to the following. If you still cannot solve the problem, stop using it immediately and contact the manufacturer or distributor.

8 Terminology

- Apnea:it refers to the amplitude of the respiratory flow rate is continuously lower than 10% of the amplitude under the normal respiratory flow rate for 10 seconds or longer.
- OA: Obstructive sleep apnea, it is a common sleep disorder characterized by recurring collapse of the upper airway during sleep.
- CA: Central sleep apnea, it is a disorder that affects breathing during sleep.
- AHI: Apnea-Hypopnea Index, it representing the number of hypopneas and apneas per hour of sleep.
- AI: Apnea index, it shows the average number of apneas per hour of sleep.
- HI: Hypopnea index,it indicates hypopnea events that may happen while the person is sleeping.
- CAI: Central Apnea Index, it is a disorder in which your breathing repeatedly stops and starts during sleep.
- OAI: Obstructive Apnea Index
- H (Hypopnea): Hypopnea refers to the patient's respiratory flow rate is continuously lower than 50% of the normal respiratory flow rate for 10 seconds or longer.
- Event: It refers to the system log record when apnea or hypopnea occurs.
- Mean: The mean (or average) of a set of data values is the sum of all of the data values divided by the number of data values.
- Median: The median (also called central value) of a set of data values is the middle value of the data set when those data are organized from the lowest to the highest value or from the highest value to the smallest value.
- P95 (95%): The 95th percentile, which refers to sorting a set of data from the smallest value to the highest value, and calculating the corresponding cumulative percentile, then the value of the data corresponding to the 95th percentile is called P95 value.
- Usage: it refers to the time the patient uses the positive pressure ventilation therapy apparatus for treatment.
- Total usage: it refers to the total time the patient uses the positive pressure ventilation therapy apparatus for treatment within a period of time.
- Daily usage: it refers to the time of using the positive pressure ventilation therapy apparatus every day. The system uses 12:00 noon of the day to 12:00 noon of the next day as the one-day usage period.
- Average daily usage: it refers to the average time of using the positive pressure ventilation therapy apparatus every day during the period of using the therapy apparatus.
- Flow rate: it refers to the airflow velocity of the patient's inhalation and exhalation.
- FL: Flow Limitation, when the upper airway collapses, the flow rate of inhalation becomes flat, which is a symptom of snoring, hypopnea, and suffocation.

- Leak: Air leakage, it refers to the air flow due to leakage through the patient's mouth and mask.
- Minute ventilation(VE): it is the total volume of gas entering (or leaving) the lung per minute.
- Tidal volume (TE): it refers to the volume of air inhaled or exhaled during each respiratory cycle when breathing normally.
- PB: Periodic breathing, also known as periodic respiration or Cheyne-stoke respiration, is an abnormal pattern of breaths separated by apnea (no breathing) or near-apnea intervals. These cycles can last anywhere from 30 seconds to two minutes on average.
- Pulse rate: also known as heart rate, is the number of times the heart beats per minute.
- RERA: Respiratory effort-related sleep arousal, also known as RERAs, it is an event characterized by increasing respiratory effort for 10 seconds or longer leading to an arousal from sleep but one that does not fulfil the criteria for a hypopnea or apnea.
- SpO2: the oxygen saturation refers to the percentage of oxyhemoglobin (oxygen-bound hemoglobin) within red blood cells. That is, the oxygen saturation in the blood.
- SNI(Snore Index): the measure of patient snoring in the system.
- ODI(Oxygen desaturation index): it is the cumulative amount of respiratory events that occur per hour during biorhythms where blood oxygen levels that fall below the 4 percent clinical baseline represents a decrease in oxygen concentration in the blood.

9 Symbol and explanation

Symbol	Explanation
	Manufacturer.
	Date of Manufacture. Country of manufacture:CN(China).
	Model number.
	Batch code.
	Medical device.
	Unique device identifier.
	The product bears CE mark indicating its conformity with the Regulation (EU) 2017/745 on medical devices (MDR) and fulfils the GSPR of Annex I of this regulation.
	European Authorized Representative.
	Software icon.
	Consult instructions for use or consult electronic instructions for use.

10 Product Specifications

Lifetime

The lifetime of the software is 15 years.

Note: Your device's Lifetime calculation resets after each software update.

Compatible devices

Device name	Positive Airway Pressure System(PAP System)
Device model	iBreeze 20C, iBreeze 20C Pro, iBreeze 20A, iBreeze 20A Pro, iBreeze 25S, iBreeze 25A, iBreeze 25A Pro, iBreeze 25ST, iBreeze 25STA, iBreeze 25STA Pro, iBreeze 30ST, iBreeze 30STA, iBreeze 30STA Pro, iBreezeTech, RXiBreeze 20C Plus, RXiBreeze 20A Plus, RXiBreeze III CPAP, RXiBreeze III CPAP Pro, RXiBreeze III APAP, RXiBreeze III APAP Pro.

11 Publisher

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KF-0691-4-044-2.0
Issue date: July 2025

CE 0123