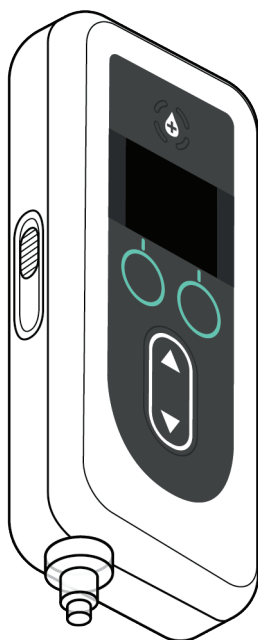


Healthcare Professional Instructions for Use of VYAFUSER™ Pump

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This Instructions for Use describes how to use the VYAFUSER pump to administer VYALEV (foscarbidopa and foslevodopa).



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Oct. 2024, USA Ver. 1.0

Note: This Instructions for Use is to be used only by healthcare professionals. See the Patient Instructions for Use of VYAFUSER Pump for information intended for patients or caregivers.

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1. Introduction

The VYAFUSER pump is an ambulatory infusion pump that uses single-use syringes for the controlled subcutaneous administration of VYALEV (foscarnidopa and foslevodopa). It provides continuous infusion 24 hours a day, 7 days a week. It administers VYALEV subcutaneously through an infusion set, which is an applied part (where system physically connects to the body). The exterior surfaces of the pump have been tested as a Type BF applied part.

Instruct the patient to keep a supply of backup oral Parkinson's Disease medicines with them at all times in case they are unable to use VYALEV infusion.

1.1 Warnings and Cautions

Warning

-  This ***Healthcare Professional Instructions for Use of VYAFUSER Pump*** is intended to be used only by a qualified healthcare professional trained on the use of this system.
-  Only use the delivery system in a manner described in this Instructions for Use.
-  Only use VYALEV and the VYAFUSER pump with disposable components that have been qualified for use with this system. Qualified components can be found at: devices.abbvie.com. This includes the vial adapter, infusion set (insertor, cannula and tubing), and syringe. The use of unqualified components may lead to allergic reaction, infection, or improper function.

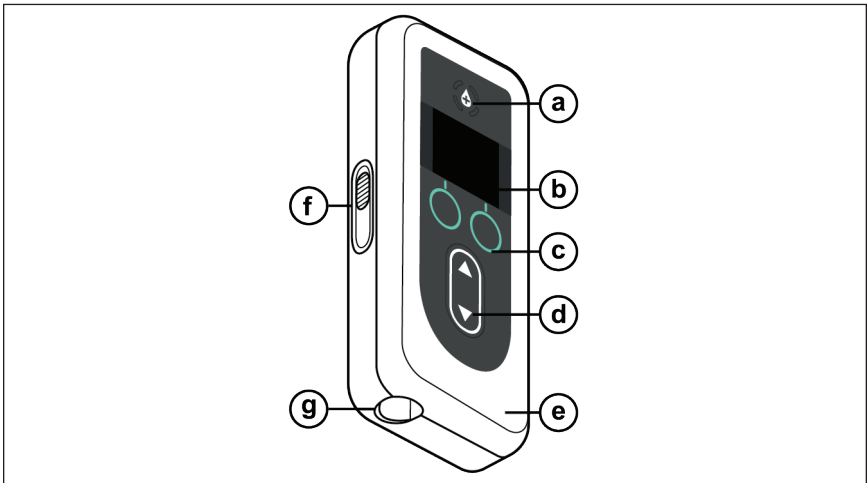
Cautions

- After programming the pump for use and prior to dispensing the pump to the patient, always verify through visual inspection that all parameter settings have been set correctly. Incorrect settings may result in unintended results.
- To prevent unauthorized users from changing settings:
 - **Do NOT** distribute a copy of the **Healthcare Professional Instructions for Use of VYAFUSER Pump** to a patient or caregiver.
 - **Do NOT** give the pump to patient/caregiver until you have exited clinician settings.

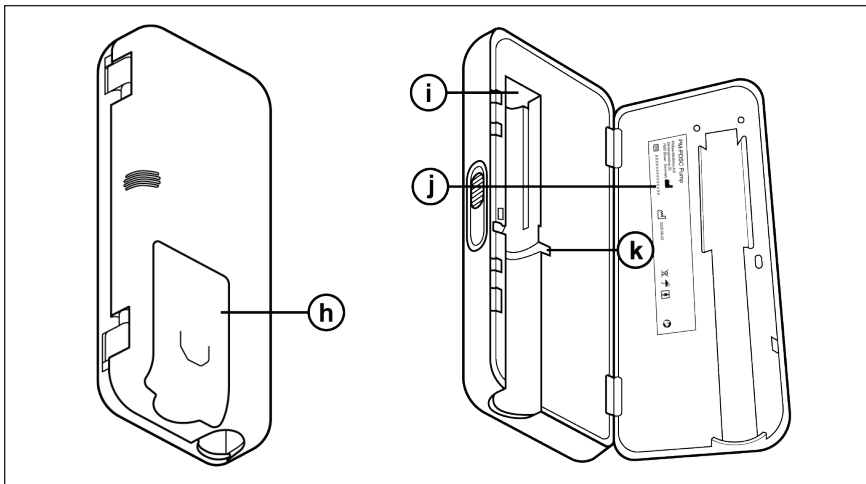
Note: After setting up the pump for use and before giving it to the patient, the following components must be put into the pump kit box:

- 1 pump
- 1 carrying accessory
- 1 charging system including battery charger, AC/Mains adapter with charging cable
- 2 batteries (one of which may be in the pump)
- 4 Instructions for Use documents:
 - 1 Patient Instructions for Use of VYAFUSER Pump
 - 1 AC/Mains Adapter IFU (Instruction Manual Power Supplies)
 - 1 Battery Charger IFU (RRC-SCC1120-PM Series)
 - 1 Instructions for Use of VYAFUSER Pump Carrying Accessory

1.2 Pump Components



a.	Extra Dose Button	Used to deliver extra doses of VYALEV, if allowed, as determined by the healthcare professional.
b.	Display	Contains pump status information and options for user actions.
c.	Selection Buttons	Used to select between different choices on the display.
d.	Arrow Keys	Up arrow: Used to scroll through menu options or increase a value. Down arrow: Used to scroll through menu options or decrease a value.
e.	Lid	The pump is a clamshell that opens for inserting and removing the syringe. The lid is the part of the clamshell with the display, buttons, and arrow keys.
f.	Lid Latch	The lid latch can be slid to release the lid closing lock.
g.	Syringe Opening	The portion of the syringe that connects to the tubing protrudes through this opening.



h.	Battery Cover	Slides into place to close the battery compartment.
i.	Syringe Plunger Rod Pusher	Pump mechanism that pushes against the syringe plunger rod to control the flow of VYALEV.
j.	Pump Information	Includes model and serial number.
k.	Syringe Flange Grooves	Houses the syringe flanges and ensures proper alignment of the syringe when inserted into the pump.

2. Initial Setup

2.1 Initial Setup

Before the pump can be used by the patient, a PIN (only for healthcare professional access) and base continuous infusion rate must be entered and confirmed. During this initial setup, it is also possible to set high and low continuous infusion rates as well as extra dose and loading dose values. The default value for the base continuous infusion rate is 0.15 mL/h. The default values for the high and low rates are the same as the confirmed base rate and will not be available unless values different to the base are set. The default values for extra dose and loading dose are 0.0 mL and will not be available unless values other than 0.0 mL are set.

2.2 Inspect Components and Install Battery

1. **Remove the pump and one battery from the pump kit (carton).**
 - a. Inspect the pump and battery to ensure there is no damage.
2. **Ensure you are using the Model RRC1120-PM battery provided with the VYAFUSER pump.**
3. **Set up the charging system.**
 - a. Remove AC/Mains adapter, charging station cable, and battery charger from the pump kit.
 - b. Connect the charging station cable to both the AC/Mains adapter and battery charger.
 - c. Plug AC/Mains adapter into a wall outlet.
 - d. Ensure red indicator is lit.
 - e. When the red indicator is lit, the battery charger is ready to charge the battery.



***AC/Mains Adapter
and Battery Charger***

Please refer to your ***AC/Mains Adapter*** and ***Battery Charger*** Instructions for Use.

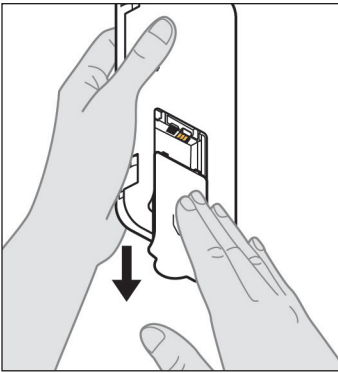


Figure A

4. Charge the battery fully before use.

Note: Before use and before giving batteries to patients, ensure all batteries are fully charged.

Note: The batteries provided in the pump kit (carton) are not fully charged by the manufacturer.

5. Remove the battery cover from the pump (see Figure A).

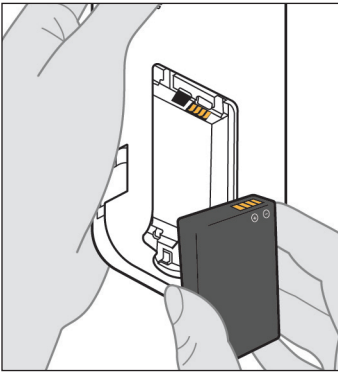


Figure B

6. Insert the battery into the battery compartment.

a. Match the metal contacts of the battery and battery compartment (see Figure B).

b. With the metal contact end inserted first, slide the battery into the compartment (see Figure C).

Note: You will hear a “click” when the battery is in place.

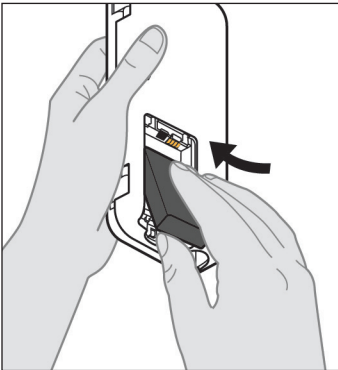


Figure C

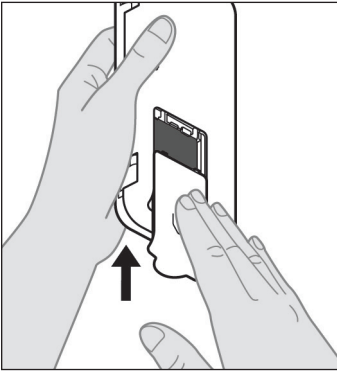
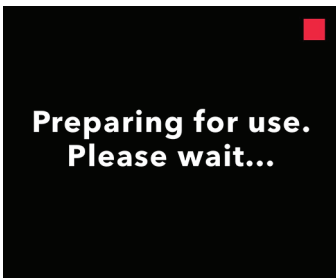


Figure D

7. Slide the battery cover onto the pump (see *Figure D*).



8. After inserting the new battery, the pump will run power on self-tests.

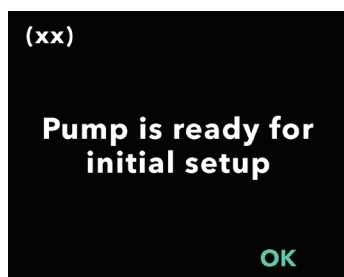


2.3 Set PIN

When setting up the pump for the first time, you must set a 4-digit PIN that will be needed for later use (e.g., when changing patient values in the future).

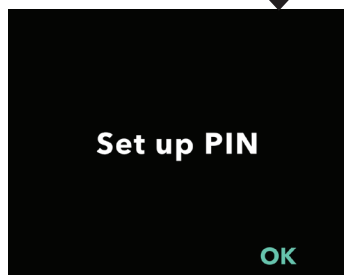
Note: Before creating the PIN, know all of the dose values you plan to enter for the continuous dose (base, high, and low), extra dose, and loading dose.

Important: If 5 minutes of inactivity elapses once setup begins, the pump will automatically exit initial setup and NONE of the values, which includes the PIN, will be saved; initial setup will need to be started from the beginning. The values will be saved only after you have confirmed the PIN and all dose values.



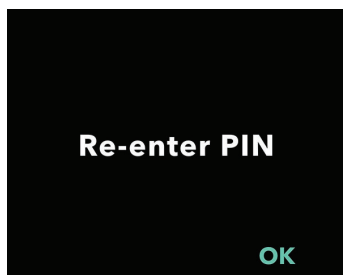
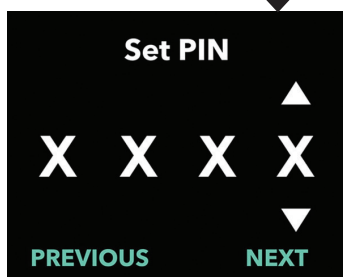
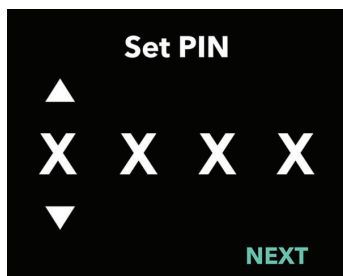
1. Follow the prompts on the display.

- a. Press OK to advance.
- b. Press OK again to begin setting the PIN.



Note: This PIN will be needed to access clinician settings in the future in order to change therapy settings, if needed. If you enter a PIN that is not accepted, the screen will display "Invalid PIN" after which you may try again.

Note: The PIN can NOT be 4 repeating digits (e.g., 2222) and can NOT be 4 consecutive digits (e.g., 2345 or 5432).

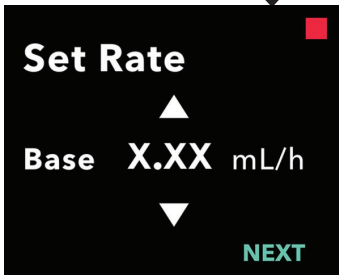
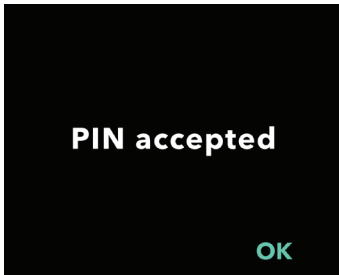
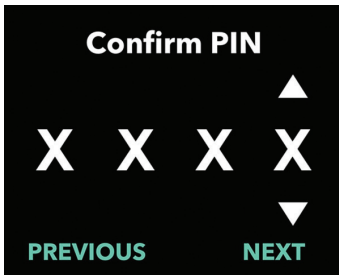


2. Enter a PIN digit.

- Use the arrow keys to choose the number.
- Use the NEXT or PREVIOUS buttons to select which digit you wish to change.
- Once the desired PIN is displayed, press NEXT to advance to the next screen.

Note: If the screen displays "Invalid PIN," re-enter the PIN and ensure that the PIN does not consist of repeating or consecutive 4 digits.

3. Press OK to re-enter the PIN.



4. Re-enter and confirm the PIN.

- a. Use the arrow keys to choose the number.
- b. Use the NEXT and PREVIOUS buttons to select which digit you wish to change.
- c. Once the same PIN has been entered, press NEXT to save the PIN and advance to the next screen.
- d. After the PIN is saved, press OK to continue. You will be prompted to enter all of the patient settings.

5. Set the base continuous infusion rate.

- a. After saving the PIN, the first setting is the base continuous infusion rate.

Note: The up arrow, used to increase values, will not be displayed when the rate cannot be increased. The down arrow, used to decrease values, will not be displayed when the rate cannot be decreased. This occurs when the rate is at the pump maximum or minimum. It also occurs because the high rate cannot be less than base and the low rate cannot be greater than base.

2.4 Set Continuous Infusion Rates

Discuss and establish a frequency for changing syringes with your patient based on the patient's needs. Any time the continuous infusion rate is changed, revisit this schedule with the patient.

Up to 3 different continuous infusion rates (base, high, and low) can be set to allow the patient to choose up to 3 pre-set rates throughout the day. Base should be used as the standard continuous infusion rate. High and low rates are optional alternative rates to the base rate. The pump prevents low from being higher than base and prevents base from being higher than high.

For patients who will not require continuous infusion rate options, the high and/or low rates can be turned off. To turn off (disable) the high and/or low rate, set the high and/or low rate to the same value as the base rate.

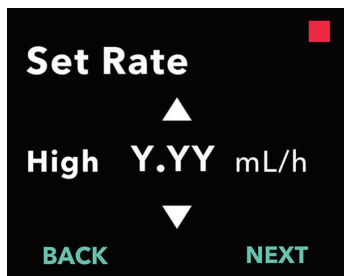
The continuous infusion rates can range from 0.15 mL/h to 1.25 mL/h and can be set in increments of 0.01 mL/h.



1. Set the base rate.

- Use the arrow keys to choose the value.
- Press NEXT once base rate is set to the correct value.

Note: During first time setup, the displayed rate is the lowest continuous infusion rate that can be set.



2. Set the high rate.

- Use the arrow keys to choose the value.
- Press NEXT once the high rate is set to the correct value.

Note: To disable the high rate, set the high rate to the same value as the base rate.



3. Set the low rate.

- Use the arrow keys to choose the value.
- Press NEXT once the low rate is set to the correct value.

Note: To disable the low rate, set the low rate to the same value as the base rate.



4. Confirm rate values.

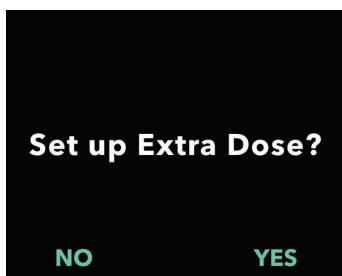
- Press CONFIRM.

Note: To change any value, press BACK until you reach the desired screen.

Note: After rate settings are confirmed, the display will offer the option to set up an extra dose.

If you select NO, the pump will confirm the extra dose is not set.

See next page to continue.

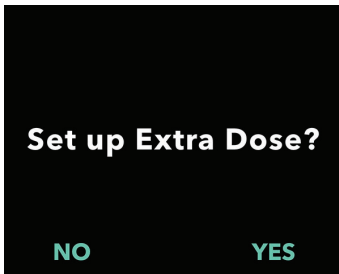


2.5 Set Extra Dose

The delivery of an extra dose can be enabled. The extra dose volume range is 0.1 mL to 0.3 mL and can be adjusted in increments of 0.05 mL.

Note: If the patient is not going to receive an extra dose, when prompted to "Set up Extra Dose?", select "NO". If you accidentally select "YES" and do not want to set an extra dose, set the extra dose value to 0 mL.

A lock-out time interval for extra dose deliveries must be configured. The lock-out time is the interval from the end of the delivery of the most recent extra dose or loading dose to the next extra dose becoming available. During the extra dose lock-out time, no extra dose deliveries can be performed by the pump. The lock-out time prevents the delivery of an unlimited number of extra doses. The lock-out time range is 1 hour to 24 hours (in 15-minute increments).



1. Set up extra dose.

- Press NO to skip extra dose set up and disable extra dose.
- Press YES to set up extra dose parameters and enable extra dose.



2. Set the extra dose volume.

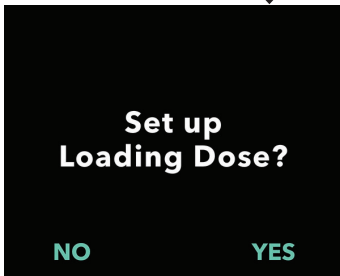
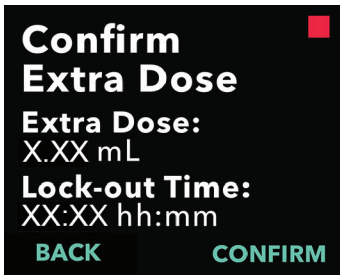
- a. Use the arrow keys to set the value.
- b. Press NEXT once extra dose is set to the desired value.



3. Set the lock-out time.

- a. Use the arrow keys to set the value.
- b. Press NEXT once lock-out time is set to the desired value.

Note: The minimum lock-out time is 1 hour.



4. Confirm extra dose values.

- a. Press CONFIRM.

Note: To change any value, press BACK until you reach the desired screen.

Note: Once extra dose and extra dose lock-out time are confirmed, the pump will continue to set up the loading dose.

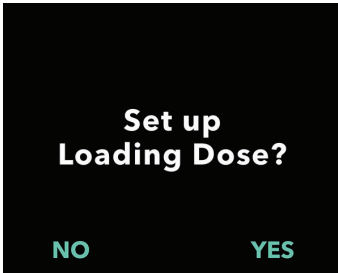
If you select NO, the pump will confirm the loading dose is not set.

2.6 Set Loading Dose

The delivery of a loading dose can be enabled. The loading dose range is from 0.1 mL to 3.0 mL and can be adjusted in increments of 0.1 mL.

Note: If the patient is not going to receive a loading dose, when prompted to "Set up Loading Dose?", select "NO". If you accidentally select "YES" and do not want to set a loading dose, set the loading dose value to 0 mL.

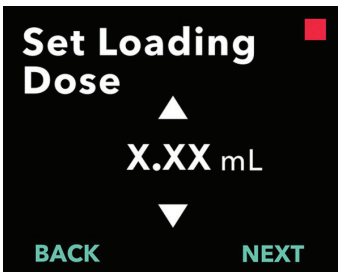
A loading dose lock-out time is the interval from the time the pump is stopped until the time the pump is able to deliver a loading dose. During the lock-out time, no loading dose deliveries can be performed by the pump. The lock-out time prevents delivery of a loading dose too soon after the last infusion. The lock-out time range is 3 hours to 8 hours in increments of 1 hour.



1. Set up loading dose.

- Press NO to skip loading dose set up and disable loading dose.
- Press YES to set up loading dose parameters and enable loading dose.

Note: By pressing NO to skip setting the loading dose, the pump will display that the loading dose was not set. If acknowledged by pressing OK, the pump displays that the initial setup is complete. At this point the PIN and all dose values will be saved, the pump automatically exits the initial setup, exits clinician settings, and will display the patient status screen in stopped mode.



2. Set the loading dose value.

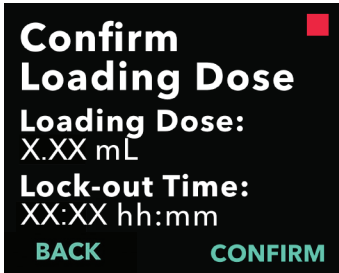
- Use the arrow keys to set the value.
- Press NEXT once loading dose is set to the correct value.



3. Set the lock-out time.

- Use the arrow keys to set the time in hours.
- Press NEXT once lock-out time is set to the correct value.

Note: The minimum lock-out time is 3 hours.

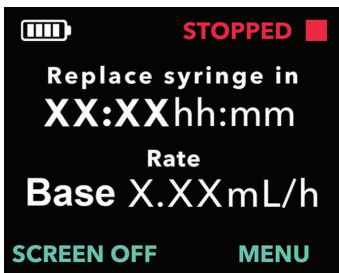
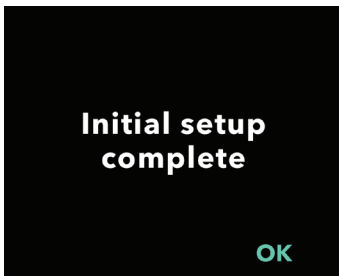


4. Confirm loading dose values.

- Press CONFIRM.

Note: To change any value, press BACK until you reach the desired screen.

Note: By pressing CONFIRM, the loading dose will be confirmed AND the PIN and ALL of the dose values (continuous rate(s), extra dose, and loading dose) will be saved.



- After pressing OK, the pump automatically exits Initial Setup and displays the status screen in stopped mode.



***Patient Instructions for Use
of VYAFUSER Pump***

5. Prepare therapy.

For detailed steps, please refer to the ***Patient Instructions for Use of VYAFUSER Pump.***

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3. Change Therapy Settings

3.1 Access Clinician Settings

If changes to patient therapy or other pump settings are needed after the initial setup is complete, you can access the clinician settings using the following procedure. The clinician settings will allow you to:

- Set continuous infusion rate parameters
- Set extra dose parameters (or set to 0 to disable)
- Set loading dose parameters (or set to 0 to disable)
- Change PIN
- Set pump language

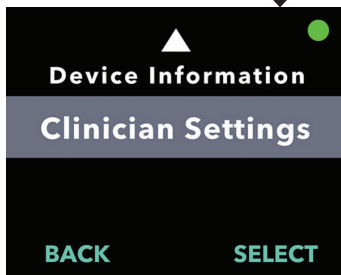


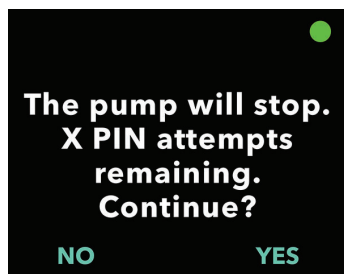
1. Navigate to *Clinician Settings*.

a. Press MENU to display pump Menu Options.

b. Use the arrow keys to navigate to *clinician settings*.

c. Press SELECT.



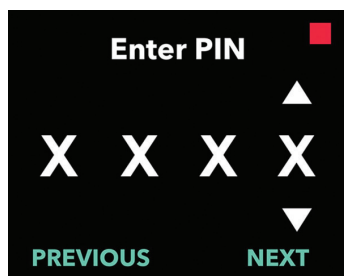


2. If the pump is running, press YES to confirm pump stop.

Note: If the pump is not running, the stopped icon (red square) will appear in the upper right corner. The screen will not say "The pump will stop" because it is already stopped.

Note: Pressing NO will return you to the Status Screen, with the pump still administering therapy.

Note: To access clinician settings, the PIN must be entered. The pump will lock out after 5 failed attempts for PIN entry.



3. Enter the PIN.

- Use the arrow keys to choose the number.
- Use the NEXT and PREVIOUS buttons to select each digit.
- Once the correct PIN is displayed, press NEXT to advance to the clinician settings menus.

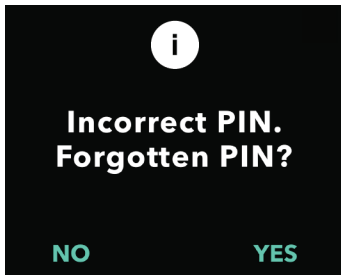
3.2 PIN Entry Failure

If you entered an incorrect PIN 5 times, the clinician settings will be locked.

Note: If the clinician settings are locked, the settings cannot be changed but the pump can still deliver therapy.

If you do not know the PIN, you will need to reset it (see section "Reset PIN (Forgotten PIN)").

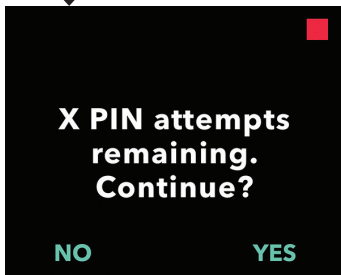
Note: The clinician settings will remain locked until the PIN reset procedure is followed.



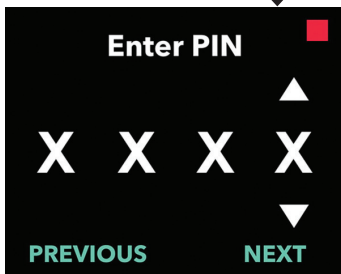
1. Attempt PIN again.

- a. If you know the PIN and entered it incorrectly, press NO so that you can try again.

Note: If you have forgotten the PIN, you will need to reset it.



2. To continue, press YES.

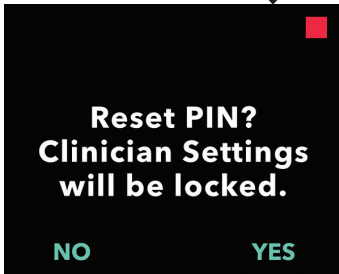
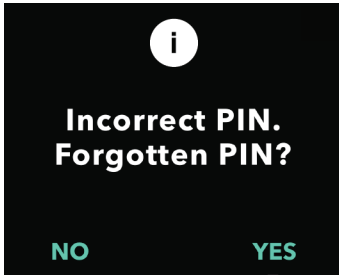


3. Enter the PIN.

- a. Use the arrow keys to choose the number.
- b. Use the NEXT and PREVIOUS buttons to select each digit.
- c. Once the correct PIN is displayed, press NEXT to advance to the clinician settings menus.

3.3 PIN Forgotten

If the PIN is forgotten, it can be reset. By choosing to reset the PIN, Clinician Settings will be locked but the pump can still deliver therapy.



1. **If YES, confirm PIN reset is needed.**
 - a. If you do not know the PIN, you will need to have it reset. If you need to have the PIN reset, Press YES.
2. **Reset PIN.**
 - a. If you choose to reset the PIN, the clinician settings will be locked until the new PIN is entered. With the clinician settings locked, changes to the therapy settings cannot be made but the pump can still run a therapy.
3. **If you need to reset the PIN, refer to the section *Reset PIN*.**

3.4 Adjust Continuous Infusion Rates

Discuss and establish a frequency for changing syringes with your patient based on the patient's needs. Any time the continuous infusion rate is changed, revisit this schedule with the patient.

Up to 3 different continuous infusion rates (base, high, and low) can be set to allow the patient to choose up to 3 pre-set rates throughout the day. The base rate should be used as the standard continuous infusion rate. The high and low rates are optional alternative rates to the base rate. The pump prevents low from being higher than base and prevents high from being lower than base.

For patients who will not need different continuous infusion rates, the high and/or low rates can be turned off. To turn off (disable) the high and/or low rate, set the high and/or low rate to the same value as the base rate.

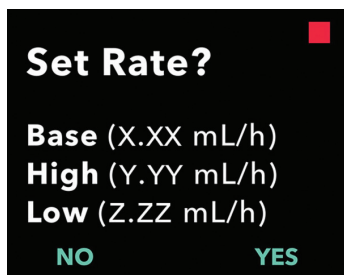
The continuous infusion rates can range from 0.15 mL/h to 1.25 mL/h and can be set in increments of 0.01 mL/h.



1. Navigate to **Set Rate** in the **Clinician Settings** menu.

- Use the arrow keys to navigate to **Set Rate**.
- Press SELECT to change the rate.

Note: To return to the status screen, press BACK.



2. Set the Continuous Infusion Rate.

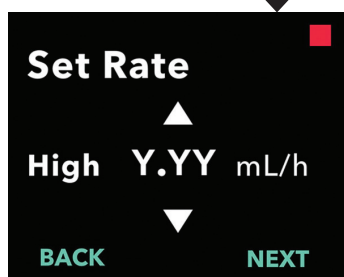
- To change a rate, press YES.

Note: The **Set Rate?** screen will display the current set values. If you choose not to change the rate, press NO.



3. Adjust the Base Rate.

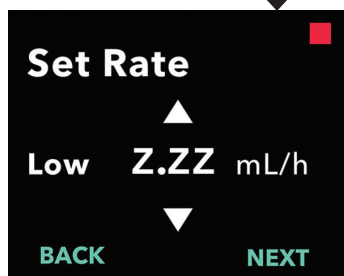
- Use the arrow keys to choose the value.
- Press NEXT once the base rate is adjusted to the correct value.



4. Adjust the High Rate.

- Use the arrow keys to choose the value.
- Press NEXT once the high rate is adjusted to the correct value.

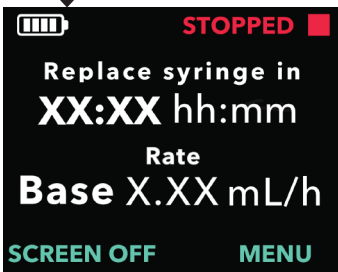
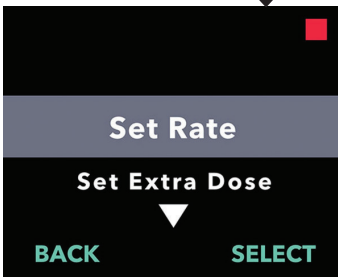
Note: To disable the high rate, set the high rate to the same value as the base rate.



5. Adjust the Low Rate.

- Use the arrow keys to choose the value.
- Press NEXT once the low rate is adjusted to the correct value.

Note: To disable the low rate, set the low rate to the same value as the base rate.



6. Confirm Rate values.

- a. Press CONFIRM to save the rates.

Note: To change any value, press BACK until you reach the desired screen.

7. To return to the status screen, press BACK.

- a. To set extra dose, scroll to desired option and press SELECT.

3.5 Adjust Extra Dose

A disabled extra dose can be enabled and an enabled extra dose can be adjusted by changing the volume or the lock-out time. The extra dose volume range is 0.1 mL to 0.3 mL, and can be set in increments of 0.05 mL.

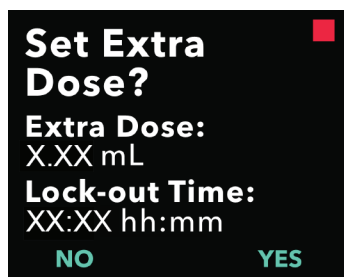
Note: Setting the extra dose volume to 0.00 disables the extra dose delivery feature.

The extra dose lock-out time is the interval from the end of the delivery of the most recent extra dose (or loading dose) to the next extra dose becoming available. During the extra dose lock-out time, no extra dose deliveries can be performed by the pump. The lock-out time prevents the delivery of too many extra doses. The extra dose lock-out time range is from 1 hour to 24 hours, in 15-minute increments.



1. Navigate to *Set Extra Dose* in the *Clinician Settings* menu.

- Use the arrow keys to navigate to **Set Extra Dose**.
- Press SELECT to continue.



2. Set Extra Dose.

- Press YES.

Note: The **Set Extra Dose?** screen will display the current set values.



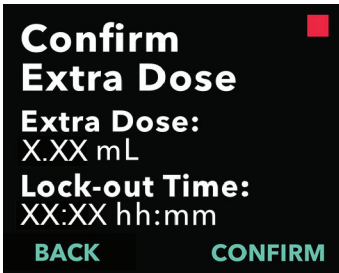
3. Adjust the Extra Dose volume.

- Use the arrow keys to choose the value.
- Press NEXT once the extra dose is adjusted to the desired value.



4. Adjust the Lock-out Time.

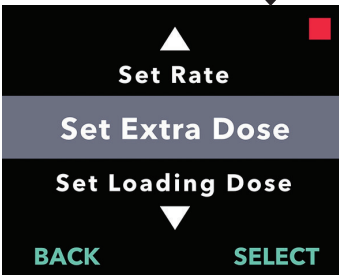
- Use the arrow keys to choose the value.
- Press NEXT once the lock-out time is adjusted to the desired value.



5. Confirm Extra Dose values.

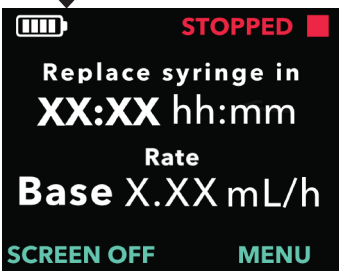
- Press CONFIRM to save the extra dose settings.

Note: To change any value, press BACK until you reach the desired screen.



6. Press BACK to return to the Status Screen.

- To set the loading dose or to change the continuous rate, scroll to the desired option and press SELECT.

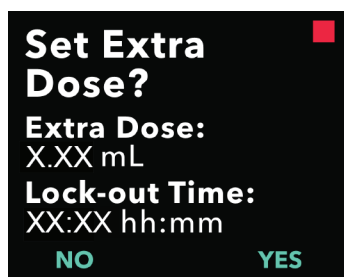


3.6 Disable Extra Dose

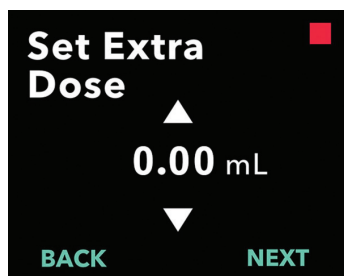
Disabling the extra dose is done by setting the extra dose volume to 0.00.



1. Navigate to *Set Extra Dose* in the *Clinician Settings* menu.
 - a. Press SELECT.



2. Set Extra Dose.
 - a. Press YES.



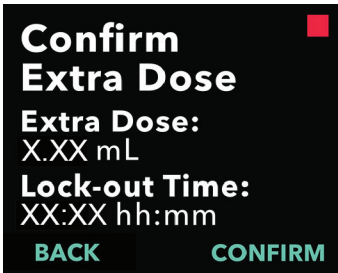
3. Adjust the Extra Dose value to 0.00.
 - a. Use the arrow keys to choose the value.
 - b. Press NEXT once extra dose is adjusted to the correct value.



4. Continue to **Confirm Extra Dose**.

- a. Press NEXT.

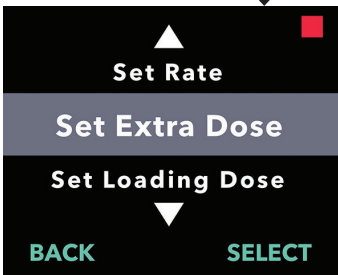
Note: The lock-out time does not need to be set when disabling extra dose.



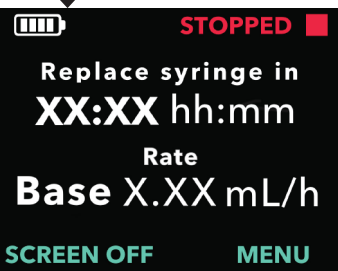
5. Confirm Extra Dose values.

- a. Press CONFIRM.

Note: To change any value, press BACK until you reach the desired screen.



6. To exit Clinician Settings and return to the patient Status Screen, press BACK.

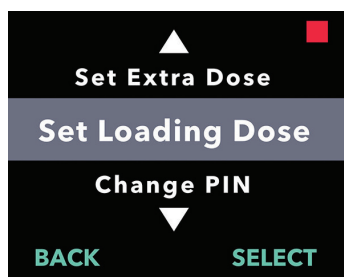


3.7 Adjust Loading Dose

A disabled loading dose can be enabled and an enabled loading dose can be adjusted by changing the volume or the lock-out time. The loading dose volume range is 0.1 mL to 3.0 mL and can be set in increments of 0.1 mL

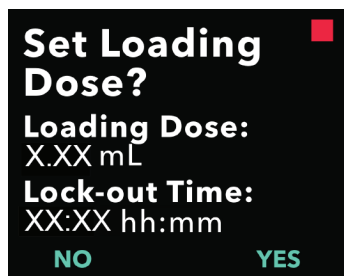
Note: Setting the loading dose volume to 0.00 disables the loading dose delivery feature.

A loading dose lock-out time is the interval from the time the pump is stopped until the time the pump is able to deliver a loading dose. During the lock-out time, no loading dose deliveries can be performed by the pump. The lock-out time prevents delivery of a loading dose too soon after the last infusion. The lock-out time range is 3 hours to 8 hours in increments of 1 hour.



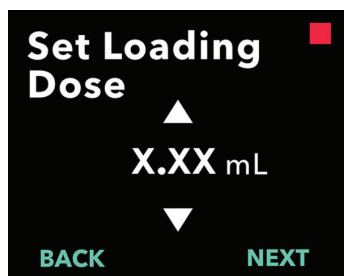
1. Navigate to **Set Loading Dose** in the **Clinician Settings** menu.

a. Press **SELECT**.



2. **Set Loading Dose.**

a. Press **YES**.



3. **Adjust the Loading Dose volume.**

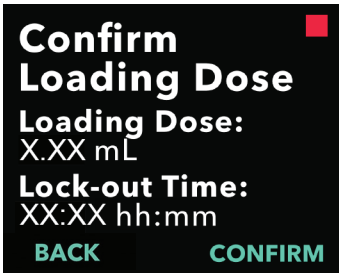
a. Use the arrow keys to choose the value.

b. Press **NEXT** once the loading dose is adjusted to the desired value.



4. Adjust the Lock-out Time.

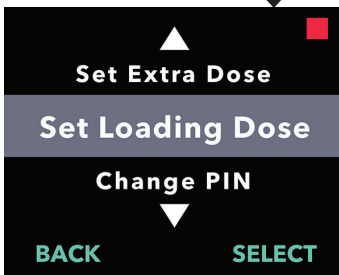
- Use the arrow keys to choose the value.
- Press NEXT once the lock-out time is adjusted to the desired value.



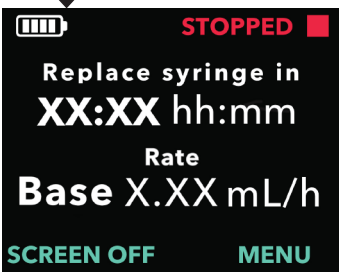
5. Confirm Loading Dose values.

- Press CONFIRM to save the loading dose values.

Note: To change any value, press BACK until you reach the desired screen.

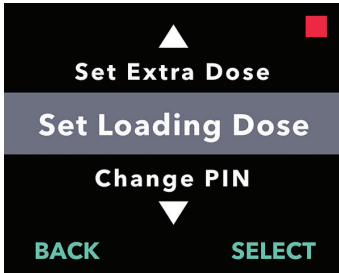


6. Press BACK to return to the Status Screen.

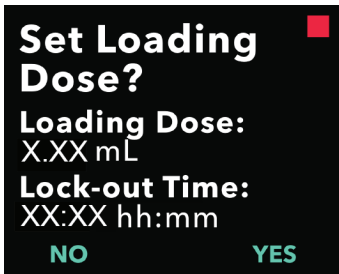


3.8 Disable Loading Dose

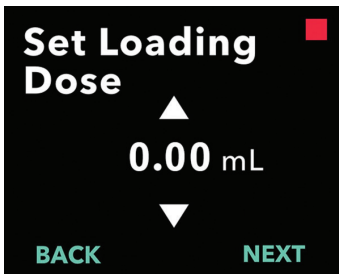
Disabling the loading dose is done by setting the loading dose volume to 0.00.



1. Navigate to *Set Loading Dose* in the *Clinician Settings* menu.
 - a. Press SELECT.



2. Set Loading Dose.
 - a. Press YES.



3. Adjust the Loading Dose value to 0.00.
 - a. Use the arrow keys to choose the value.
 - b. Press NEXT once loading dose is adjusted to the correct value.



4. Continue to **Confirm Loading Dose**.

- a. Press NEXT.

Note: The lock-out time does not need to be set when disabling loading dose.



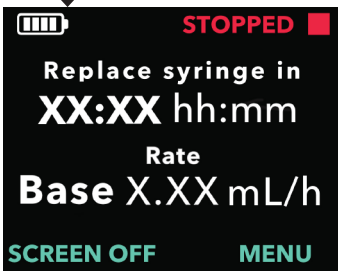
5. **Confirm Loading Dose values.**

- a. Press CONFIRM.

Note: To change any value, press BACK until you reach the desired screen.



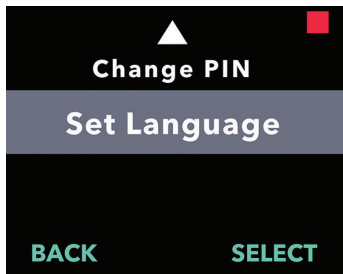
6. Press **BACK** to return to the Status Screen.



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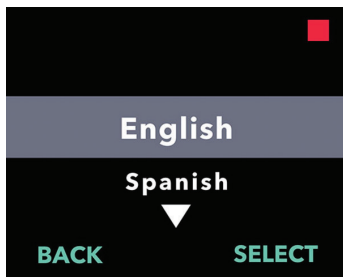
4. Set Language

If there is more than one language, the Set Language option allows the language to be selected. If the pump has only one language, the "Set Language" menu option will not be displayed.



1. Navigate to **Set Language** in the **Clinician Settings** menu.

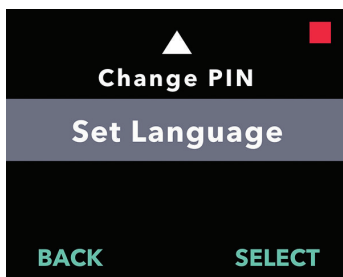
a. Press SELECT.



2. Select language.

a. Use the arrow keys to choose the language.

b. Press SELECT once the desired language is selected.



3. Press **BACK** to return to the Status Screen.

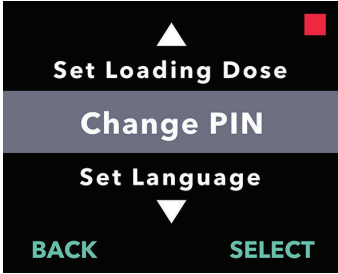


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5. Change PIN

If you need to change your PIN, you can do so within the clinician settings menu.

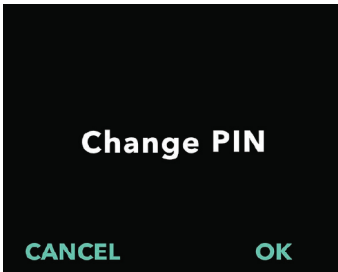
Note: The current PIN must be entered to access the clinician settings menu.



1. Navigate to **Change PIN** in the **Clinician Settings** menu.

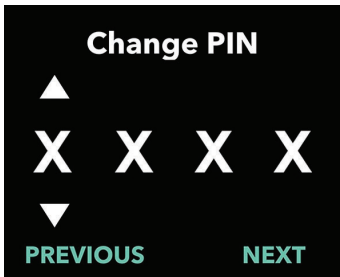
- Use the arrow keys to navigate to **Change PIN**.
- Press SELECT to change the PIN.

Note: To return to the status screen, press BACK.



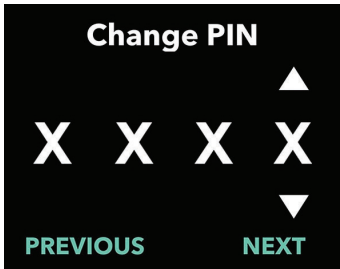
Note: The new PIN will be needed to access clinician settings to change therapy settings, if needed.

Note: The PIN can NOT be the same 4 digits (e.g., 2222) and can NOT be 4 consecutive digits (e.g., 2345 or 5432).

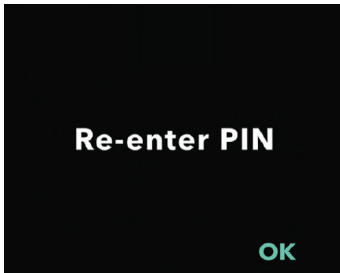


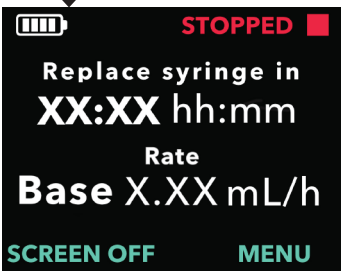
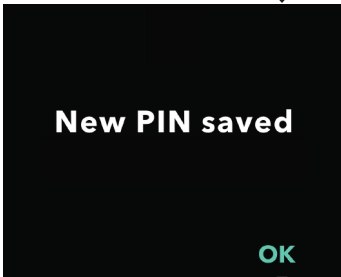
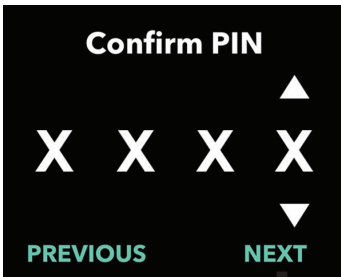
2. Enter the new PIN.

- a. Use the arrow keys to choose the number.
- b. Use the NEXT and PREVIOUS buttons to select each digit.
- c. Once the desired PIN is displayed, press NEXT to advance to the next screen.



3. Press OK to re-enter and confirm the new PIN.





4. Re-Enter the new PIN.

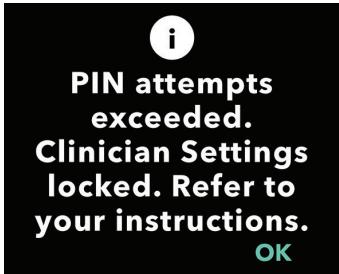
- Use the arrow keys to choose the number.
- Use the NEXT and PREVIOUS buttons to select each digit.
- Once the same PIN has been entered, press NEXT to save the PIN and advance to the next screen.

5. Press BACK to return to the Status Screen.

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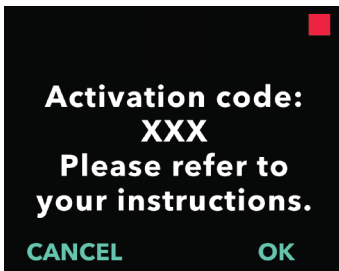
6. Reset PIN (Forgotten PIN)

If the incorrect PIN is entered 5 times or if you forgot the PIN and need to reset it, the clinician settings will be locked. You will need to contact VYALEV Support to reset the PIN.



1. Recover access to Clinician Settings.

- When clinician settings are locked, press OK to proceed.

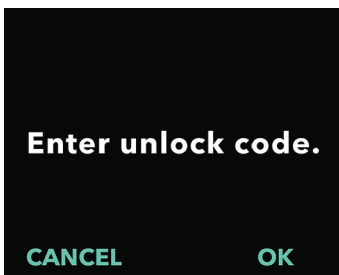


2. Continue to obtain unlock code.

- Document the 3-digit activation code that is displayed on the pump screen. This is the number that must be used to receive the unlock code.

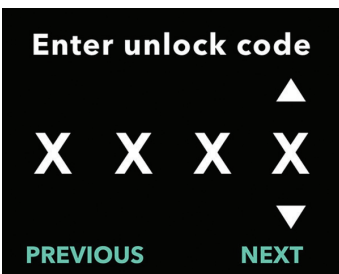
Note: The 3-digit activation code will not remain on the screen after you press OK.

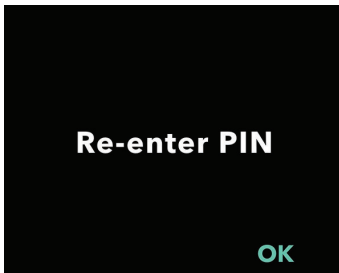
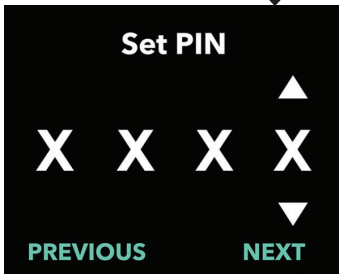
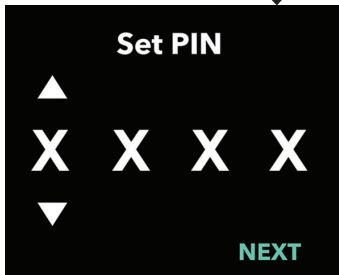
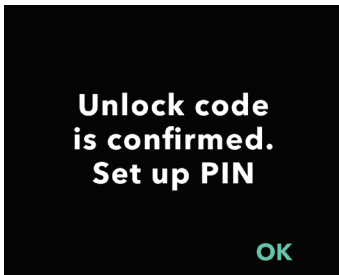
- To obtain the unlock code, call VYALEV Support at (866) 4-VYALEV or (866) 489-2538. Explain that you need to reset the PIN and give them the 3-digit activation code. They in turn will provide you with a 4-digit unlock code.



3. Use the Arrow Keys to enter the 4-digit unlock code.

- Use the arrow keys to enter the 4-digit unlock code.
- Use the NEXT and PREVIOUS buttons to select each digit.
- After entering the 4-digit unlock code, press NEXT to continue.





4. Unlock code is confirmed. Set your new PIN.

Note: If the correct unlock code has been entered, the pump will display a message confirming the correct unlock code has been entered.

- Press OK to advance to the next screen to set your new PIN.

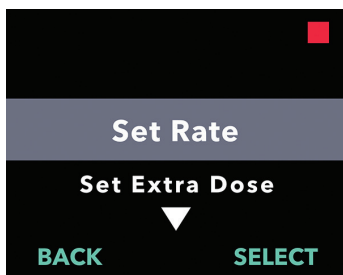
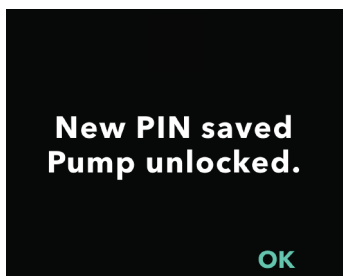
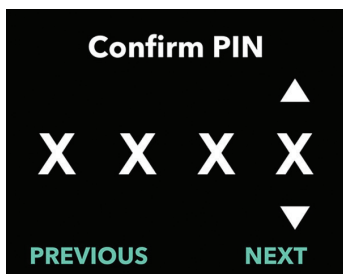
Note: If an incorrect unlock code was entered, you can try up to 3 times, after which a different 3-digit activation code will be generated.

5. Set your new PIN.

- Use the arrow keys to choose the PIN number.
- Use the NEXT and PREVIOUS buttons to select each digit.
- Once the desired PIN is displayed, press NEXT to advance to the next screen.

Note: If the screen displays "Invalid PIN," re-enter the PIN and ensure that all 4 digits are not the same (e.g., 5555) and that the 4 digits are not in consecutive order (e.g., 5678).

6. Press OK to re-enter and confirm the new PIN.



7. Re-enter the new PIN.

- Use the arrow keys to choose the number.
- Use the NEXT and PREVIOUS buttons to select each digit.
- Once the same PIN has been entered, press NEXT to save the PIN and advance to the next screen.

8. Press OK and remain in the Clinician Settings menu.

- Scroll through the list to select another setting to change. Press BACK to exit clinician settings.

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7. Remove Battery

1. Stop the therapy.

Note: For details, refer to **Patient Instructions for Use of VYAFUSER Pump**.

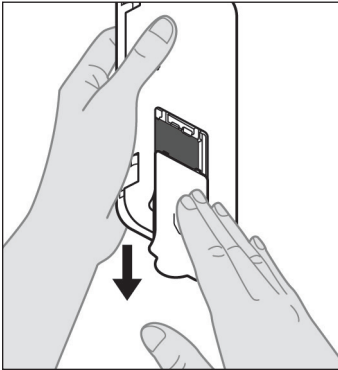


Figure E

2. Remove the battery

a. Remove the battery cover from the pump (see Figure E).

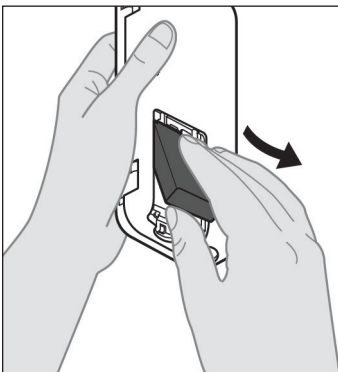
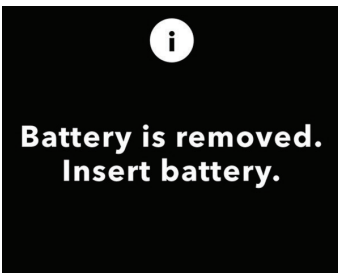


Figure F

b. Remove the battery (see Figure F).

c. Place the battery in its container.



Note: The pump display will remain lit for up to several minutes and will turn off automatically.

Note: The pump will retain all of the settings after the battery is removed.

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8. Re-packaging for Patient Use

If the pump has been programmed for patient use, but needs to be re-packaged (e.g., to ship it to the patient's home), follow these steps:

1. Remove the battery from the pump.

Note: When the battery is removed, the pump displays a message that the battery is removed. The display remains lit for several minutes. You may re-package while the display is lit because it will turn off automatically.

Note: The pump will retain all of the settings after the battery is removed.

2. Insert the battery into the small battery box and then place it on top of the spare battery in the battery holder compartment of the pump kit.

3. Insert the pump back into the pump compartment of the pump kit.

4. Replace any other components that were removed during pump programming to their original compartments in the pump kit.

- 1 pump
- 1 carrying accessory
- 1 charging system including battery charger and AC/mains adapter with charging cable
- 2 batteries
- 4 Instructions for Use documents:
 - 1 Patient Instructions for Use for VYAFUSER Pump
 - 1 AC/Mains Adapter IFU (Instruction Manual Power Supplies)
 - 1 Battery Charger IFU (RRC-SCC1120-PM Series)
 - 1 Instructions for Use of VYAFUSER Pump Carrying Accessory

5. Close the lid of the box.

Close all of the inner flaps in the kit so when the outer lid is closed, it lays flat.

Note: **Do NOT** include the **Healthcare Professional Instructions for Use of VYAFUSER Pump**.

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9. Subcutaneous Insertion



Proper cannula length selection and placement is critical to ensure intended dosing and administration of VYALEV. Select the cannula size that is long enough to deliver the infusion into the subcutaneous tissue but will not infiltrate the muscle, which can cause pain and/or cause the cannula to bend and potentially result in an occlusion. To make this selection, consider different patient characteristics, including the patient's abdominal adipose tissue thickness, abdominal girth, and body mass index. Patients should be trained on proper placement techniques and management of the cannula and infusion set.

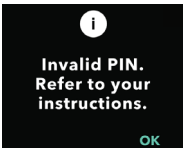
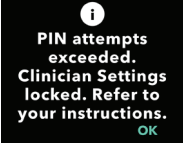
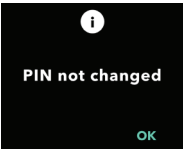
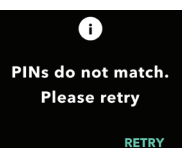
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10. Informational Messages

10.1 Informational Messages

The following table (Informational Messages) provides status information and guidance for tasks related to the clinician settings.

Display	Description	Acoustic Signal	Corrective Action (if applicable)
	Display shows you entered an incorrect PIN and provides a path to re-set it if you forgot it or to try again.	2 Beeps	If you entered a known PIN incorrectly, press "NO" (that you did not forget it) and re-enter the PIN. If you forgot the PIN, press "YES" and follow the screen prompts carefully. A screen will be displayed with a 3-digit activation code that you will need to obtain an unlock code. Call VYALEV support at (866) 4-VYALEV or (866) 489-2538 and tell them the 3-digit activation code to get the 4-digit unlock code.
	An incorrect unlock code was entered.	2 Beeps	Enter the unlock code again. If an incorrect unlock code is entered 3 times, a new 3-digit activation code will be generated. Call VYALEV support at (866) 4-VYALEV or (866) 489-2538 and tell them this new activation code to get a new 4-digit unlock code.

Display	Description	Acoustic Signal	Corrective Action (if applicable)
 <p>Invalid PIN. Refer to your instructions.</p> <p>OK</p>	<p>Display shows you attempted to set a PIN that does not comply with the PIN setup requirements. Use of 4 repeating digits (e.g., 3333) or 4 consecutive digits (e.g., 3456 or 6543) is not permitted.</p>	<p>2 Beeps</p>	<p>Respond "OK" and set a PIN that meets the requirements.</p>
 <p>PIN attempts exceeded. Clinician Settings locked. Refer to your instructions.</p> <p>OK</p>	<p>The clinician settings are locked and cannot be accessed without resetting the PIN. This occurs after 5 incorrect PIN entry attempts.</p>	<p>2 Beeps</p>	<p>After pressing OK to continue, write down the 3-digit activation code displayed on the next screen and call VYALEV support at (866) 4-VYALEV or (866) 489-2538 to receive the unlock code.</p>
 <p>PIN not changed</p> <p>OK</p>	<p>Information screen when the PIN change procedure is cancelled.</p>	<p>2 Beeps</p>	<p>Press OK to continue</p>
 <p>PINs do not match. Please retry</p> <p>RETRY</p>	<p>When setting up the PIN, the new PIN and the PIN re-entered must be the same.</p>	<p>2 Beeps</p>	<p>Press RETRY and start over by entering the new PIN.</p>

11. Technical Specifications

11.1 Technical Features

Pump Dimensions	170 x 76 x 33 mm (6.7 x 3.0 x 1.3 in)
Pump Weight	285 g (10.0 oz.), including battery
Battery	3.6 V Li-Ion / 2.35 Ah / 8.46 Wh
Pump Ingress Protection Rating	IP22
Pump Security Lock Levels	Protected Clinician Mode
Permissible Orientations of the Pump	No specific orientation required
Continuous Dose Delivery Flow Rates	Programmable from 0.15 mL/hr to 1.25 mL/hr with 0.01 mL/hr increments
Number of Selectable Flow Rates	Up to 3, based on configuration
Average Flow Rate During Extra Dose and Loading Dose Delivery	5.5 mL/hr
Priming Volume	From 0.15 mL to 0.6 mL
Extra Dose Volume	Programmable from 0.1 mL to 0.3 mL in 0.05 mL increments
Lock-out Time Interval Between Extra Doses	Programmable from 1 hour to 24 hours in 15 minute increments
Loading Dose Volume	Programmable from 0.1 mL to 3.0 mL in 0.1 mL increments
Lock-out Time Interval Between Loading Doses	Programmable from 3 hours to 8 hours in 1 hour increments
Typical Service Life of the Pump	The pump is expected to have a service life of 3 years.
Time to Bring System to Operating Temperature	<p>The operating temperature of the system is between 41 °F (5 °C) and 104 °F (40 °C). It may, however, be stored between -4 °F (-20°C) and 140 °F (60 °C).</p> <p>Following storage at temperatures below 41 °F (5 °C) or above 104 °F (40 °C), the system should remain unused at room temperature, 68 °F (20 °C), for at least 30 minutes before operating.</p>

Maximum Infusion Pressure Generated by Pump	200 kPa
Maximum Time for Activation of the Occlusion Alarm	<p>Note: Changes in temperature and infusion set length may affect the time to detect an occlusion.</p> <p>The time to detect an occlusion is 5 hours or less when infusing under the following conditions:</p> <ul style="list-style-type: none"> • basal delivery flow rate of 0.15 mL/hr • infusion set length of 60 cm • occlusion introduced at patient end of infusion set • ambient temperature of 68 +/- 4 °F (20 +/- 2 °C) • ambient humidity of 65 +/- 5 % RH <p>The time to detect an occlusion is 2 hours or less when infusing under the following conditions:</p> <ul style="list-style-type: none"> • basal delivery flow rate of 0.70 mL/hr • infusion set length of 60 cm • occlusion introduced at patient end of infusion set • ambient temperature of 68 +/- 4 °F (20 +/- 2 °C) • ambient humidity of 65 +/- 5 % RH
Maximum Volume of Unintended Bolus After Occlusion	<p>The pump, when pumping at 0.7 mL/hr, has a maximum unintended bolus volume of 0.8 mL under the following conditions:</p> <ul style="list-style-type: none"> • infusion set length of 60 cm • occlusion introduced at patient end of infusion set • ambient temperature of 68 +/- 4 °F (20 +/- 2 °C)
System Operating Conditions	<p>To maintain all essential performance requirements, the operating temperature range of the pump is between 41 °F (5 °C) and 104 °F (40 °C), inclusive, within the humidity range of 15% to 90% non-condensing, inclusive, and within the atmospheric pressure range of 70 kPa to 106 kPa, inclusive.</p>
Pump Kit Storage and Transport Conditions (including the Pump, Battery Charging System, and Carrying Accessory)	<p>-4 °F to 41 °F (-20 °C to 5 °C) with uncontrolled humidity</p> <p>41 °F to 104 °F (5 °C to 40 °C), up to 90% relative humidity non-condensing</p> <p>104 °F to 140 °F (40 °C to 60 °C), up to 15% relative humidity non-condensing</p> <p><i>Note:</i> At atmospheric pressure ranging from 53.3 kPa to 106 kPa, inclusive.</p>

<p>Delivery Accuracy</p>	<ul style="list-style-type: none"> • Valid for environmental operating conditions specified above • Valid for infusion sets listed at devices.abbvie.com <p>Continuous Doses:</p> <ul style="list-style-type: none"> • $\pm 10\%$ for continuous dose flow rates* <p>Loading Doses:</p> <ul style="list-style-type: none"> • $\pm 25\%$ for delivery volumes up to but not including 1.4 mL • $\pm 10\%$ for delivery volumes equal to or greater than 1.4 mL <p>Extra Doses:</p> <ul style="list-style-type: none"> • $\pm 25\%$
<p>Maximum Pumping Rate During Priming</p>	<p>The maximum flow rate for the first priming step is 90 mL/hr. The priming volume is limited to 0.6 mL per priming cycle.</p>
<p>Typical Pump Operating Time with a New Fully-Charged Battery</p>	<p>A new, fully-charged battery will power the pump, even at the highest basal delivery rate, for at least 37 hours.</p>

* For delivery periods of 6 hours or more, the average flow rate will be within $\pm 10\%$ of the programmed rate across the entire programmable range. For delivery periods of 1 hour, the average flow rate may differ from the programmed rate by up to ± 0.1 mL/hr for flow rates from 0.15 mL/hr to 0.70 mL/hr. This is because VYAFUSER is a pulsatile pump, and each pulse-shot delivers a small, discrete volume of drug product at regular time intervals. The frequency of these pulse-shots is determined by the programmed flow rate. Thus, at low to intermediate flow rates (0.70 mL/hr and under), flow rate sample periods of 1 hour will not necessarily contain the same number of pulse-shots.

The pump has the following primary mitigations against under-infusion:

- Required confirmation of all delivery rates and volumes set by the healthcare professional.
- Required confirmation of all delivery rates selected by the user.
- Occlusion detection
- Independent circuitry that checks against malfunctioning software or hardware.

The pump has the following primary mitigations against over-infusion:

- Maximum programmable rates are consistent with expected patient needs.
- Required confirmation of all delivery rates and volumes set by the healthcare professional.
- Required confirmation of all delivery rates selected by the user.
- Independent circuitry that checks against malfunctioning software or hardware.

Note: Maximum volume infused under single fault conditions:

If the pump malfunctions in an over-infusion condition at a delivery rate of less than 6.5 mL/hr, the safety circuit will not detect the over-infusion. During this condition, the entire syringe volume (up to 11 mL) would be delivered at that rate.

Description of pump occlusion threshold:

1. Prevention of the pressure in the syringe exceeding 200 kPa.
2. Detecting syringe pressure increase if line is occluded at pressures below 200 kPa.

Sound Pressure Level:

The high priority alarm has a sound pressure level range from 50 dBA to 67 dBA at 1 meter. The low priority alarm has a sound pressure level range from 49 dBA to 62 dBA at 1 meter.

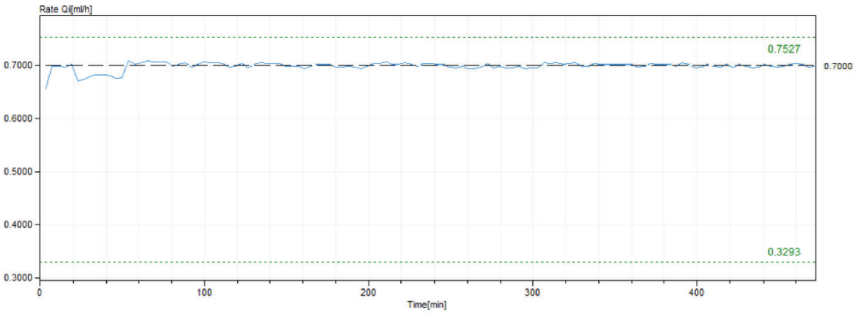
Continuous Dose Delivery Accuracy:

Continuous dose delivery accuracy testing was performed based upon IEC 60601-2-24:2012. Testing was performed with distilled water at room temperature with a 9-mm needle, 60-cm long Neria Guard infusion set and with a programmed rate of 0.70 mL/hr: results are shown below.

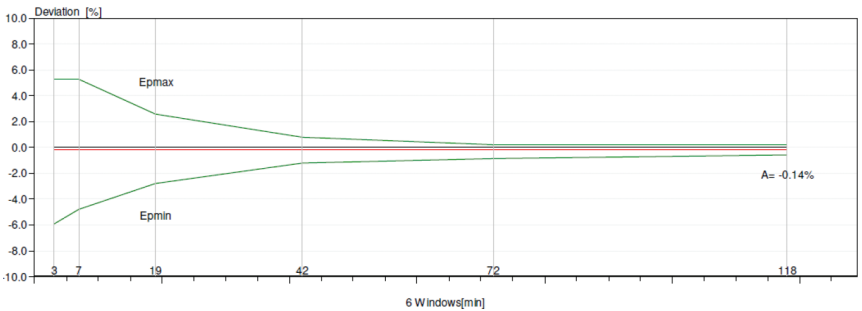
Mean flow error: -0.14%

Start-up graph

Flow rate



Trumpet curve from minute 472 - 856



Bolus Delivery Accuracy:

Bolus delivery accuracy data were generated based upon IEC 60601-2-24:2012. Testing was performed with distilled water at room temperature with a 9-mm needle, 60-cm long Neria Guard infusion set.

Bolus Dose Volume Target	Number of Successive Bolus Deliveries	Delivered Volume (mL)	Calculated Mean Deviation from Set Value (mL)	Calculated Percentage Deviation from the Set Value (%)
0.1 mL (Minimum bolus volume setting)	25	2.52755	0.02755	Total volume: 1.1 Max negative: 5.65 Max positive: 4.25
3.0 mL (Maximum bolus volume setting)	3	9.23863	0.23863	Total volume: 2.65 Max negative: 4.23 Max positive: 6.39












Delivery Accuracy Under Backpressure:







Delivery accuracy data were generated under simulated high back-pressure conditions (such as from partial occlusions) and using the time to detect as the test window. This effectively characterizes the mean flow rate error that could occur under these conditions both including the initial 30-60 min start-up period, and within the steady-state period to which the system subsequently converges.



Delivery Accuracy Under Backpressure		
Target Flow Rate	Mean Flow Rate Error (Including Start-Up)	Mean Flow Rate Error (Steady-State)
3.0 mL bolus	-4.84%	--
1.25 mL/hr	-10.28%	-0.68%
0.70 mL/hr	-8.84%	-0.94%
0.15 mL/hr	-16.08%	-4.48%

12. Reference

12.1 Explanation of Symbols

Symbol	Title and Designation Number of Standard, Regulation or Guidance	Reference Number	Title/Meaning of Symbol
	ISO 7010:2019	ISO 7010-W001	General Warning Sign
	ANSI/AAMI/ISO 15223-1:2021	5.1.1	Manufacturer
	ANSI/AAMI/ISO 15223-1:2021	5.1.3	Date of Manufacture
	ANSI/AAMI/ISO 15223-1:2021	5.1.5	Batch Code
	ANSI/AAMI/ISO 15223-1:2021	5.1.6	Catalog Number
	ANSI/AAMI/ISO 15223-1:2021	5.1.7	Serial Numbers
	ANSI/AAMI/ISO 15223-1:2021	5.3.4	Keep Dry
	ANSI/AAMI/ISO 15223-1:2021	5.3.7	Temperature Limits
	ANSI/AAMI/ISO 15223-1:2021	5.3.8	Humidity Limitation
	ANSI/AAMI/ISO 15223-1:2021	5.3.9	Atmospheric Pressure Limitation
	1. ASTM F2503-20 2. Testing and Labeling Medical Devices for Safety in the Magnetic Resonance (MR) Environment, FDA Guideline May 20, 2021	1. Figure 9 2. VIII	MR Unsafe The device is magnetic resonance unsafe. Keep the device away from places with magnetic resonance such as MRI scanner rooms.

Symbol	Title and Designation Number of Standard, Regulation or Guideline	Reference Number	Title/Meaning of Symbol
	EN 50419:2006	Clause 4.2	Throw away (dispose of) this product according to local regulations
GTIN	N/A	N/A	Global Trade Identification Number
	ANSI/AAMI/ISO 15223-1:2021	5.1.4	Use-by-date (expiration date)
	EU Directive 94/62/EC of 20 December 1994 on Packaging and Packaging Waste & EU Commission Decision 97/129/EC	20 is reserved for corrugated fiberboard (PAP-paper)	Recycling
	IATA Dangerous Goods Regulations	Figure 7.1.C	Dangerous Goods
	ISO 7010:2019	ISO 7010-M002	Refer to instruction manual/booklet
	IEC 60417:2002 DB	IEC 60417-5333	Type BF Applied Part
IP22	IEC 60529:2001	Clause 4.1 and 4.2	Protection against foreign objects of 12.5 mm and greater in diameter Protection against water drops falling straight down when enclosure tilted up to a 15° angle

Symbol	Title and Designation Number of Standard, Regulation or Guideline	Reference Number	Title/Meaning of Symbol
Rx only	21CFR801.109	(b) (1)	This symbol means that an order from a healthcare provider is needed to use or sell the drug or device.
	ANSI/AAMI/ISO 15223-1:2021	5.2.3	Sterilized using ethylene oxide Applies to sterile disposable parts.
	ANSI/AAMI/ISO 15223-1:2021	5.2.4	Sterilized using irradiation Applies to sterile disposable parts.

References

ISO 15223-1:2021 Medical Devices — Symbols to be used with medical device labels, labeling, and information to be supplied — Part 1: General Requirements

ISO 7010:2019 Graphical symbols — Safety colours and safety signs — Registered safety signs








IEC 60529:2001 Degrees of protection provided by enclosure (IP code) IEC 60417:2002 DB Graphical symbols for use on equipment

Testing and Labeling Medical Devices for Safety in the Magnetic Resonance (MR) Environment, FDA Guideline May 20, 2021

21 CFR 801.109 Code of Federal Regulations Title 21 Volume 8 Sec.801.109 Prescription Devices

ASTM F2503-20 Standard Practice for Marking Medical Devices and Other Items for Safety in the Magnetic Resonance Environment

12.2 Pump Kit Labels

Symbol	Title and Designation Number of Standard, Regulation or Guidance	Reference Number	Title/Meaning of Symbol
	N/A	N/A	Instruction Manual
	N/A	N/A	Charging System (mains/ AC adapter and charging station)
	N/A	N/A	Charging System Note: Lift up and to the left to open
	N/A	N/A	Battery
	N/A	N/A	Pump
	N/A	N/A	Carrying Accessory
	N/A	N/A	Carrying Accessory Note: Lift up and to the right to open

For questions or problems, call VYALEV Support at (866) 4-VYALEV or (866) 489-2538.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Approved: 10/2024