Point of Care Help
# Table of Contents

Point of Care Help ........................................................................................................................... 1

Overview ................................................................................................................................... 1

Warnings .................................................................................................................................. 1

Important Notes ........................................................................................................................ 2

Communicating with the Pump ................................................................................................. 3

Connecting the Pump to the PC ............................................................................................... 3

Changing Your Password ......................................................................................................... 5

Closing the Point of Care ......................................................................................................... 5

System Setup ...............................................................................................................................5

Pump Selections ...................................................................................................................... 5

Connecting to a Protocol Library .............................................................................................. 5

Importing a Protocol Library ..................................................................................................... 6

Interface Cable/Null Modem Cable Set .................................................................................... 7

Setting the Communications (COM) Port ................................................................................ 8

USB Cable ................................................................................................................................8

Protocols and Protocol Libraries ............................................................................................... 9

What is a Protocol? .................................................................................................................. 9

What is a Protocol Library? ...................................................................................................... 9

Logging in to the Protocol Library .......................................................................................... 10

Selecting a Protocol ............................................................................................................... 10

Modifying Patient Specific Parameters .................................................................................. 11

Weight-Based Protocols ......................................................................................................... 11

Second Nurse Verification ...................................................................................................... 12

Drug ID Verification .............................................................................................................. 12

Sending a Protocol to the Pump ............................................................................................. 12

Viewing a Protocol Details Report .......................................................................................... 13
Entering Comments for the Patient Specific Parameters ....................................................... 13
Send Library ........................................................................................................................... 14
Reports....................................................................................................................................... 14
Retrieving a Report from the Pump ...................................................................................... 14
Retrieving a Saved Report ..................................................................................................... 16
Saving a Report ..................................................................................................................... 16
Printing a Report ................................................................................................................... 16
Point of Care Help

About the Point of Care Application

CADD™-Solis Medication Safety Software – Point of Care
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Overview

CADD™-Solis Medication Safety Software – Point of Care allows use of a PC to send pump programs to CADD®-Solis (Model 2100, Model 2110) and CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pumps.

CADD™-Solis Medication Safety Software – Point of Care uses a Therapy-based Protocol database, which is set up using the CADD™-Solis Medication Safety Software – Administrator program. You may also use Point of Care to view and print pump reports from the Protocol database.

CADD™-Solis Medication Safety Software – Point of Care consists of the following functions (tabs):

- **Protocol**: This tab is where you select the Therapy, related Qualifier, and Drug that you intend to send to the pump. From this tab, you may edit and review the parameters, verify the Drug ID using a barcode scanner, and send the Protocol to the pump.

- **Reports**: This tab is used to retrieve and view reports from the pump. You may pull up a saved CADD®-Solis or CADD-Prizm® PCS II Ambulatory Infusion Pump report from the reports database or from an attached CADD-Prizm® PCS II Ambulatory Infusion Pump. Once the report is displayed, it may be printed and saved.

Warnings
Read through the CADD™-Solis Medication Safety Software – Point of Care Installation and Technical Manual and these help topics before operating CADD™-Solis Medication Safety Software – Point of Care.

Failure to properly follow warnings, cautions, and instructions could result in death or serious injury to the patient.

- Follow your facility’s processes for backup and restoration of the Protocol Library database information.
- When using weight-based delivery parameters, ensure that all weights are entered in kilograms.
- When using a weight-based Protocol, the Continuous Rate is programmed using units/kg/hr input, and the Demand or PCA Dose amount and Delivery Limit are programmed using units/kg input. The pump LCD screen displays the Continuous Rate in Units (milligram, microgram, milliliter) per hour, and the Demand or PCA Dose, and Delivery limit are displayed in units (milligram, microgram, milliliter); therefore, any further adjustment of doses on the pump will be in units/hr or units.
- Always carefully review the program on the pump after it has been programmed to verify that the pump is programmed correctly.
- When scanning a barcode to read a Drug ID, always visually verify that the correct barcode information was entered into the program after scanning.
- Inspect all cable accessories for damage. Do not use the cable accessories if the wires are exposed, if the connector or alignment pins are bent or damaged in any way.
- It is strongly recommended that login and/or physical access to the computer that holds the Protocol Library Database is restricted to prevent unauthorized user access.
- Using an out-of-date Protocol Library or Protocol Library Database could cause incorrect programming of the pump. Your facility should have a clearly-defined process for archiving, backing up, and restoring the Protocol Library Database.

Important Notes

- The CADD™-Solis Medication Safety Software – Point of Care is not intended to replace medical personnel, clinical expertise, and patient assessment.
- The user must become familiar with the CADD®-Solis Ambulatory Infusion Pump and the CADD-Prizm® PCS II Ambulatory Infusion Pump (software revision H) features, operation and accessories prior to use.
- The Help topics pertain only to CADD™-Solis Medication Safety Software – Point of Care. For detailed instructions, specifications, warnings, warranty, and additional information about operating the CADD®-Solis or CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pumps, refer to the Operator’s Manual supplied with the pump.
- Future updates to the computer’s operating system software, .NET Framework, SQL, installation of other software on the Point of Care computer, a change to the Regional and Language Options - Standards and Formats setting, or removal of installed components may affect the operations of the CADD™-Solis Medication Safety Software. Your facility should have a clearly defined process for qualifying existing software with new operating system versions.
- If the CADD™-Solis Medication Safety Software cannot be used to program the pump due to an inability to operate the software or connect to the pump, follow your facility’s policy and procedures for programming the pump manually.
• If installing the CADD™-Solis Medication Safety Software – Point of Care application on a PC that is not networked to the Protocol Library database, Protocol Libraries must be obtained by exporting them from the CADD™-Solis Medication Safety Software – Administrator program using portable media and then imported into Point of Care.

• For CADD-Prizm® PCS II pump reports, the pump must be set to the same Date and Time format as the PC for the reports to display correctly.

Communicating with the Pump

CADD™-Solis Medication Safety Software – Point of Care allows you to connect the PC to a CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pump using an Interface Cable/Null Modem Cable Set, or to connect to a CADD®-Solis Ambulatory Infusion Pump using a USB Cable.

When the pump is connected to the PC, from Point of Care, you will be able to:

• Select a Protocol based on a Therapy, Qualifier, and Drug.
• Edit and review Patient Specific Parameters.
• Program a patient’s pump.
• Verify a Drug ID using a barcode scanner or by manually typing in the Drug ID.
• View pump reports.

NOTE: In order to send a new Protocol to a pump, the pump must be stopped.

Connecting the Pump to the PC

If you want to send a Protocol to a pump or download pump reports, the pump must be connected to the PC.

Verify that the pump is powered on and then and follow the steps below to connect a pump to the PC.

For a CADD-Prizm® PCS II Ambulatory Infusion Pump (with software revision H), using an Interface Cable/Null Modem Cable Set:

1. Connect the end of the NULL modem cable with 9 pinholes to the serial port on the back of the computer and tighten the screws.

2. Connect the other end of the NULL modem cable to the large connector of the interface cable.

3. Attach the other end of the interface cable to the "Data In/Out" jack on the pump.
For a CADD®-Solis Ambulatory Infusion Pump (Model 2100, Model 2110), using a USB cable:

1. Connect the USB Type A plug to the PC.
2. Connect the USB Type Mini-B plug to the side of the pump.
B - USB Type Mini-B Plug

Changing Your Password

CADD™-Solis Medication Safety Software – Point of Care allows you to change your password. You do not need to be logged into the Point of Care program to change your password. When changing a password, the current password is required.

**NOTE:** If you have forgotten your password or are unable to log in, contact your CADD™-Solis Medication Safety Software administrator to have your password reset.

**To change your password:**

1. From the menu bar, select **Tools > Change Password**.
2. Enter the User ID.
3. Enter the old password.
4. Enter the new password and then confirm the new password by entering it again in the **Confirm New Password** field.
5. Click **OK**. A message is displayed to confirm that the password was changed.

Closing the Point of Care

To close the Point of Care program, select **File** from the menu bar and click **Exit**.

System Setup

Pump Selections

CADD™-Solis Medication Safety Software – Point of Care can be configured for use with the following pumps:

- CADD®-Solis Ambulatory Infusion Pump (Model 2100, Model 2110)
- CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pump

Pump selection occurs during installation of the CADD™-Solis Medication Safety Software; however, this can be modified after installation.

**To modify pump selections:**

1. From the menu bar, select **Tools > Pump Selections**.
2. In the Pump Selections dialog box, add a pump by checking its box; to remove a pump, uncheck its box.
3. Click **OK**.

When you log into CADD™-Solis Medication Safety Software – Point of Care, if only one pump type is selected, only that pump type will be displayed. If more than one pump type is selected, a drop-down list is provided to allow you to select the type of pump that you are working with. When you select the pump type, the Protocols that you have access to will be displayed for that pump type.

Connecting to a Protocol Library
A connection to the Protocol Library database (on the PC or on a network server) is required to log into CADD™-Solis Medication Safety Software – Point of Care and to access a Protocol Library.

The Protocol Library database connection settings are typically set up during installation of the CADD™-Solis Medication Safety Software. A user with the System Administrator permission can modify these settings as necessary.

**NOTE:** To connect to a Protocol Library database, you must be authorized by your facility for the database and have the appropriate database location and connection settings. For more information, contact the administrator responsible for the CADD™-Solis Medication Safety Software database at your facility.

**To modify the Protocol Library connection settings:**

1. From the menu bar, click **Protocols > Library Connection**.
2. In the Library Connection dialog box, enter your Protocol Library database Server Name and Advanced Connection Settings. If the database resides on the local PC, typically only the Server Name must be entered.
3. Within the Verify Permission area, a CADD™-Solis Medication Safety Software User ID and Password for a user account with the System Administrator permission must be entered.
4. From the Library Name drop-down list, select the Protocol Library to which you want to connect.
5. Click **Connect**.
6. At message confirming successful connection, click **OK**. The name of the connected Protocol Library is shown in the status bar at the bottom of the Point of Care window.

**NOTE:** If a message appears stating that connection is not successful or you have invalid or insufficient permissions, contact the administrator responsible for the CADD™-Solis Medication Safety Software database at your facility to obtain the proper connection information and/or user account permissions.

7. After the Protocol Library connection is set, users at this installation of Point of Care may log in to the Protocol Library.

**NOTE:** If the database connection changes, or connection to a different Protocol Library is necessary, repeat this procedure to establish connection to the database and Protocol Library.

**Importing a Protocol Library**

If you are unable to access a Protocol Library from a network database, you may import a Protocol Library into the database installed on the local PC.

Users with the Protocol Administrator permission can import Protocol Libraries from another CADD™-Solis Medication Safety Software database server or database file previously exported from CADD™-Solis Medication Safety Software – Administrator. Upon importing a Protocol Library, additional options allow you to import users, usage and pump logs, and set imported Protocols as not active.

**To import a Protocol Library from a database server or file:**
1. From the menu bar, select Protocols > Import Library. The Import Library dialog box is displayed.

2. To import from another database server, select Import From Server and enter the Server Name and Advanced Connection Settings (default values are provided) for the database server.

   – OR –

   If importing from a previously-exported database file, select Import from File, click Browse and then select the location and filename for the exported database file (*.smd file).

3. If not already logged in as a user with Protocol Administrator permission, in the Verify Permission area, enter a User ID and User Password for a user with the Protocol Administrator permission.

4. Click Get Library List. The selected database server or file is read and a list of Protocol Libraries is displayed. To view a Protocol Library’s description, last modified date/time, and version number, click to select it.

5. Click to place a check mark next to the Protocol Libraries you want to import.

6. Set the Import Options by clicking to place a check mark next to the desired options:

   • **Import Users**: All users in the database or data file shall be copied into the connected database. New users will be added, existing users will have their permissions updated (including all user passwords), and no users shall be deleted.

   • **Import Usage Logs**: All usage logs in the database or data file shall be copied into the connected database.

   • **Import Pump Logs**: All pump log information shall be copied into the connected database.

   • **Import Protocols as Not Active**: All Protocols in the database server or file shall default to inactive upon being copied into the database. Therefore, the Protocols will need to be reviewed/edited and set to Active using the CADD™-Solis Medication Safety Software – Administrator program before they can be sent to a pump.

   **NOTE**: Import options will not be available for selection if the source database server or file does not contain the applicable data. For example, usage logs will not be available to import if the Protocol Libraries were exported with usage logs not included.

7. Click OK to import the selected Protocol Libraries.

**Interface Cable/Null Modem Cable Set**

The Interface Cable/NULL Modem Cable Set is used to communicate between the computer and the CADD-Prizm® PCS II Ambulatory Infusion Pump only. The Interface Cable/NULL Modem Cable Set (part number 21-6144) may be purchased from Smiths Medical Customer Service.
A - NULL Modem Cable
B - Interface Cable

NOTE: The CADD®-Solis Ambulatory Infusion Pump uses a USB Cable to connect to the computer.

Setting the Communications (COM) Port

For CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pumps only, connect the pump to the PC using an Interface Cable/Null Modem Cable Set.

Upon installation, CADD™-Solis Medication Safety Software – Point of Care is set up to communicate with the pump on the COM1 port. If the connection to the PC is on a port other than COM1, you must change the port setting in Point of Care.

NOTE: User Log In is not required to set the COM Port.

To set the COM Port:

1. On the menu bar, select Settings > Select COM Port.
2. In the Select COM Port dialog box, enter the correct COM Port number.
   
   NOTE: If you need to find which port to select, navigate to System Properties (in Windows Control Panel, select System). On the Hardware tab of the System Properties dialog box, click the Device Manager button. Click the "+" next to Ports (COM & LPT). Enter the COM Port shown there (in Step 2 above).
3. Click OK.

USB Cable
CADD™-Solis Medication Safety Software – Point of Care can communicate with a CADD®-Solis (Model 2100, Model 2110) Ambulatory Infusion Pump via a USB cable. The cable requires a USB Type A plug for connecting to the PC and a USB Type Mini-B plug for connecting to the pump.

The Point of Care program can be used to send a Protocol Library or get Pump History via the USB cable when connected to the CADD®-Solis Ambulatory Infusion Pump.

The USB cable may be purchased at a local computer supply store.

**NOTE:** Do not use a USB cable that is longer than 2 meters (6.5 feet) in length. Exceeding this length may increase the pump’s susceptibility to external electromagnetic interference.

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**Protocols and Protocol Libraries**

**What is a Protocol?**

A Protocol is a collection of medication delivery and other pump settings that make up the pump’s program. CADD™-Solis Medication Safety Software – Point of Care allows you to select a Protocol, as ordered by a licensed practitioner, by choosing a Therapy, Qualifier, and Drug.

When selecting a Protocol to send to a pump, you receive the pump parameters defined in the Protocol and can make changes to any editable patient specific parameter as prescribed. After setting any patient specific parameters and providing verifications as required by the Protocol, you can send the Protocol to the pump.

**NOTE:** CADD™-Solis Medication Safety Software – Point of Care can be used to send a single Protocol to CADD®-Solis and CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pumps only. To send a single Protocol to a CADD®-Solis VIP Ambulatory Infusion Pump, the CADD™-Solis Medication Safety Software – Administrator program must be used.

**What is a Protocol Library?**

Users of CADD™-Solis Medication Safety Software – Point of Care can be given permission to access selected Protocol Libraries and to send Protocol Libraries and Protocols to pumps. For information about your specific user account and permissions, see the administrator responsible for CADD®-Solis Medication Safety Software for your facility.

**NOTE:** CADD™-Solis Medication Safety Software – Point of Care can be used to send a Protocol Library to a CADD®-Solis Ambulatory Infusion Pump only. To send a Protocol Library to a CADD®-Solis VIP Ambulatory Infusion Pump, the CADD®-Solis Medication Safety Software – Administrator program must be used.

CADD™-Solis Medication Safety Software – Point of Care accesses Protocol Libraries from a connected local or server database. Additionally, from Point of Care you can import Protocol Libraries from files previously exported from the Administrator application.

**Logging in to the Protocol Library**

The User ID and Password fields at the top of the Point of Care window allow you to log in to the Protocol Library. Once logged in, you can select Therapies, Qualifiers, and Drugs, and send Protocols to your selected pumps.

**NOTE:** To log into the Protocol Library, a connection to the Protocol Library must have been set for your installation of CADD™-Solis Medication Safety Software – Point of Care. Additionally, you must have a user account with permission to access the Protocol Library. For more information, contact your CADD™-Solis Medication Safety Software administrator.

**To log into the Protocol Library:**

1. Enter your CADD™-Solis Medication Safety Software User ID and Password.
2. Click Log In.
3. Once logged in, the Pump drop-down list becomes available to let you select your desired pump (if your Point of Care is set up for multiple pump types).
4. After selecting your Pump, select the Protocol you want to send to the pump.

**Selecting a Protocol**

The Protocol tab is used to select a Protocol for viewing, to modify editable parameters for a Protocol, and to send a Protocol to a pump.

**NOTE:** For the CADD®-Solis Ambulatory Infusion Pumps only, you cannot download an individual Protocol to a pump that has the same Protocol (same Therapy, Qualifier, and Drug Name) in its Protocol Library.

**To select a Protocol:**

1. After logging in to the Protocol Library, make sure that the Protocol tab is selected. (If more than one pump type is available in the pump drop-down list, select the desired pump type.)
2. Click to select a Therapy from the list. If the Administrator provided any notes regarding the Therapy, the notes appear in the box below.
3. Click to select a Qualifier from the list. If the Administrator provided any notes regarding the Qualifier, the notes appear in the box below.
4. Click to select a Drug from the list.
NOTE: If you selected the wrong Therapy,Qualifier, or Drug, you may return to the Therapy box at any time by clicking Reset.

5. Click Continue.

If the Protocol is defined as weight-based, a Weight-Based Protocol dialog box is displayed, otherwise you are brought directly to the Patient Specific Parameters screen.

Modifying Patient Specific Parameters

Patient Specific Parameters are displayed and editable (if set up by the administrator as displayed and editable) after selecting a Protocol. The Patient Specific Parameters screen contains parameters specific to the Protocol, including any that you can adjust for the specific patient, as prescribed.

To modify Patient Specific Parameters:

1. After Selecting a Protocol, on the Edit/Review screen, any patient-specific parameters defined in the Protocol as viewable and editable are displayed. When editable patient-specific parameters are available, fields show editable values. You can type to change any editable value and use the TAB key to move to the next editable parameter. You can also use the up or down buttons to the right of any editable parameter to increase or decrease the desired value. Additionally, you can use the mouse to click and drag the black sliding arrow to select the desired value.

   NOTE: If you adjust a parameter outside of the soft limits defined in the Protocol, an amber indication is displayed for that parameter. If the Protocol requires comments to be added when entering a value outside of the soft limit, then the Enter a Comment dialog box will be presented.

2. After editing patient specific parameters, click Send to Pump.

3. If any verifications are required for the Protocol (Second Nurse Verification and/or Drug Verification), you are prompted to provide such verification.

Weight-Based Protocols

Depending on the type of Protocol and the policies and procedures of your facility, the Administrator may configure the Protocol to be weight-based. If you have selected a Protocol that is weight-based, the "Weight-Based Protocol" dialog box will display after you click Continue. This will display the Protocol you have just selected and ask you to enter the weight of the patient.

WARNING: When using weight-based delivery parameters, ensure that all weights are entered in kilograms. Failure to do so could result in undesired programming of the pump and, depending on the type of Drug being administered, death or serious injury to the patient.

WARNING: When using a weight-based Protocol, the Continuous Rate is programmed using units/kg/hr input, and the Demand or PCA Dose amount and Delivery Limit are programmed using units/kg input. The pump LCD screen displays the Continuous Rate in Units (milligram, microgram, milliliter) per hour, and the Demand or PCA Dose, and Delivery limit are displayed in units (milligram, microgram, milliliter); therefore, any further adjustment of doses on the pump will be in units/hr or units.

For Weight-Based Protocols:

1. At the Weight-Based Protocol dialog box, enter the patient’s weight in kilograms.

2. Click Continue to proceed to the Patient Specific Parameters screen.
Second Nurse Verification

A Second Nurse Verification may be required before sending the Protocol to the pump. Whether or not this is required is determined by the Administrator. If this is a requirement, the Second Nurse Verification dialog box is displayed after clicking Send to Pump in the Patient Specific Parameters window.

NOTE: Depending on how the Protocol is set up, you may have to enter a comment before proceeding to this screen.

At the Second Nurse Verification dialog box, a second nurse who verifies the Protocol will need to enter their CADD™-Solis Medication Safety Software User ID and Password.

When presented with the Second Nurse Verification dialog box:

1. Have a second nurse verify the Patient Specific Parameters.
2. As the second nurse, if you find the Parameters to be acceptable:
   a. Enter your User ID and Password.
   b. Click Continue.
3. As the second nurse, if you find the Parameters to be unacceptable:
   a. Do not enter your User ID and password.
   b. Click Back and allow the first nurse to correctly modify the Parameters.
   c. Repeat the steps above.

Drug ID Verification

CADD™-Solis Medication Safety Software – Point of Care allows it to be verified that the Drug specified for the Protocol is the same Drug to be administered in the pump.

Verifying the Drug ID when sending a Protocol to a pump:

The Administrator determines whether or not Drug ID Verification is a requirement when sending a Protocol to the pump. If this step is required, the Verify Drug window will display after clicking Send to Pump in the Patient Specific Parameters screen.

NOTE: If the Administrator requires a comment after the parameters were modified and/or a second nurse verification, the "Verify Drug" window will display after the "Enter a Comment" and/or the "Second Nurse Verification" window.

1. If you have a barcode scanner attached to your PC, scan the barcode that corresponds to the Drug you intend to use. You may also manually type in the Drug ID.

WARNING: When scanning a barcode to read a Drug ID, always visually verify that the correct barcode information was entered into the program after scanning. Failure to do so could result in undesired programming of the pump and, depending on the type of Drug being administered, death or serious injury to the patient.

2. Click Continue. If the Drug ID is invalid, a message will appear stating that the Drug ID does not match the Protocol. Click Back to go back to the Verify Drug window. Recheck the Drug or reenter the Drug ID and proceed.

NOTE: Do not proceed if there is any question about the verification of the Drug ID.

Sending a Protocol to the Pump
You can initiate sending a Protocol to the pump from the Patient Specific Parameters screen.

**To send a Protocol to the Pump:**

1. Connect the pump to the computer and ensure that the pump is powered on and stopped (for information about using the pump, see the Operator’s Manual for the pump). Also, if using a CADD®-Solis pump, it must be at the home screen.

2. After selecting a protocol and making the appropriate modifications to any patient specific parameters, click Send to Pump.

3. If a window pops up requesting a comment, enter a comment.

4. If a window pops up requesting a second nurse verification, follow your facility’s procedures for a second nurse verification.

5. If a window pops up requesting Drug ID verification, verify the Drug ID.

**WARNING:** When scanning a barcode to read a Drug ID, always visually verify that the correct barcode information was entered into the program after scanning. Failure to do so could result in undesired programming of the pump and, depending on the type of Drug being administered, death or serious injury to the patient.

6. Click Send. The Send to Pump window will open displaying the status of the Protocol as it is being sent to the pump.

7. Once the display indicates successful programming of the pump, you will have the option to print the Protocol.

8. You may click Close to return to the main screen.

**WARNING:** Always carefully review the program on the pump after it has been programmed to verify that the pump is programmed correctly. Failure to do so could result in undesired programming of the pump and, depending on the type of drug being administered, death or serious injury to the patient.

**Viewing a Protocol Details Report**

You can view, save, and print a Protocol Details Report for any Protocol. The Protocol Details Report contains the date when the Protocol was last modified; the Protocol Library to which the Protocol belongs; its associated Therapy, Qualifier, and Drug; and the delivery, alarm, security, display, and sound settings specified in the Protocol.

**NOTE:** The Protocol Details Report is read-only and you may not make any changes to it. If changes are needed for a Protocol, contact your Administrator.

**To view and print a Protocol Details Report:**

1. Make sure the Protocol tab is selected and follow steps 1-4 for selecting a Protocol by selecting a Therapy, Qualifier, and Drug.

2. From the menu bar, click Protocols > Protocol Details.

3. The Protocol Details Report displays. To print the report, click the printer toolbar button. To save the report as a Microsoft® Excel® file or a PDF file, click the export (floppy disc icon) toolbar button. If the report extends beyond one page, use the page forward and back toolbar buttons to view the next or previous page.

**Entering Comments for the Patient Specific Parameters**
You may be required to enter a comment if you adjusted a parameter outside of the soft limit range (depending on how the Administrator set up the Protocol). If this step is required, the Enter a Comment dialog box will display after clicking Send to Pump in the Patient Specific Parameters window.

To enter a comment:

1. In the Enter a Comment dialog box, type a comment according to your facility’s standards.
2. Click Continue.

   NOTE: Depending on how the Protocol is set up, you may have to perform a second nurse verification and/or verify the Drug ID you are using before the Protocol can be sent to the pump.

**Send Library**

CADD™-Solis Medication Safety Software – Point of Care can be used to send a Protocol Library to a CADD®-Solis (Model 2100, Model 2110) Ambulatory Infusion Pump.

**NOTE:** To send a Protocol Library to a CADD®-Solis VIP (Model 2120) Ambulatory Infusion Pump, the CADD™-Solis Medication Safety Software – Administrator program must be used.

**To send a Protocol Library to a CADD®-Solis Ambulatory Infusion Pump:**

1. **Connect the pump to the computer** and ensure that the pump is powered on and stopped (for information about using the pump, see the Operator's Manual for the pump). When sending a library to a CADD®-Solis pump, the pump must be on the home screen.
2. In CADD™-Solis Medication Safety Software – Point of Care, select Protocols > Send Library.
3. If not already logged in with a user account having the Send Library permission, you are prompted to enter a User ID and Password to proceed.

   **NOTE:** If the Administrator did not provide you with Send Library permission or did not make a Protocol active, you will not be able to select or send a Protocol Library.
4. In the Send Library dialog box, select the Protocol Library that you want to send to the pump.

   **NOTE:** The Send Library dialog box displays only Protocol Libraries that contain active non-weight based Protocols that the logged in user has permission to use.
5. Click Send to Pump. (If you want to view and print a Library Summary Report containing details about the Protocols contained in the selected Protocol Library, click Print.)

   The Send Library dialog box displays status and a message indicating when the Protocol Library has been successfully downloaded to the pump. If the Protocol Library could not be downloaded, additional information is provided.
6. Click the Close button when finished.

**WARNING:** Always carefully review the program on the pump to verify that the pump is programmed correctly. Failure to do so could result in undesired programming of the pump and, depending on the type of Drug being administered, death or serious injury to the patient.

**Reports**

**Retrieving a Report from the Pump**
NOTE: To process a report from a pump, the pump must be connected to the PC.

NOTE: For CADD-Prizm® PCS II Ambulatory Infusion Pump reports to display correctly, the pump must be set to the same Date and Time format as the PC.

To retrieve a report from a pump:

1. Select the Reports tab.
2. If more than one pump type is available, click to select the desired pump type and then click Get Reports from Pump or Get Current Data from Pump (depending on pump type selected).
3. For CADD-Prizm® PCS II Ambulatory Infusion Pumps, make selections for the types of report data you would like to view. For CADD®-Solis Ambulatory Infusion Pumps, enter an optional Patient ID to associate the records; note that some pump reports will require a Patient ID to be assigned.
4. Click Get Report or Get Events (depending on pump type selected).

Reports for CADD®-Solis Ambulatory Infusion Pumps:

- **Given and PCA Dose:** This shows the cumulative total of given medication, and PCA doses given and attempted for the time period displayed. This report must be filtered using a Patient ID and Protocol.

- **Delivery History and Pie Chart:** This report displays the portion of therapy delivered by the Continuous Rate, PCA Doses, and Clinician Bolus for the time period displayed. This report must be filtered using a Patient ID and Protocol.

- **Delivery Log:** This report provides a log of the events related to fluid delivery. Each event is stamped with the time and date. This report must be filtered using a Patient ID and Protocol.

- **PCA and Intermittent Bolus Graph:** This report displays the number of Intermittent Bolus Doses given and the number of PCA Doses given and attempted over the selected time span. This report must be filtered using a Patient ID and Protocol.

- **Intermittent Bolus Graph:** This report displays the number of Intermittent Bolus Doses given over the selected time span. This report must be filtered using a Patient ID and Protocol.

- **Continuous Quality Indicators:** This is a collection of reports on alarms, faults, and other indicators that facilitate troubleshooting and analysis of therapies and pump usage.

- **Event Log:** This report displays the following types of events: hourly given totals, dose delivery, alarms and error codes, power source changes, cassette changes, Protocol Library changes, changes to pump programming, and changes to pump settings.

Reports for CADD-Prizm® PCS II (software revision H) Ambulatory Infusion Pumps:

- **Rx Settings:** This report displays the Rx settings for a specific Patient ID or pump serial number.

- **Delivery Report:** This report provides a log of the events related to fluid delivery for a specific Patient ID or pump serial number. Each event is stamped with the time and date.

- **Event Log:** The Event Log report displays the following types of events: dose delivery, alarms and error codes, power source changes, cassette changes, changes to pump programming, and changes to pump settings.
- **Patient History**: Displays Patient ID, Rx settings, fluid delivery totals, and Demand Dose given and attempted.
- **Pain Scale**: The pain scale values along with the times and dates of entry are displayed.

### Retrieving a Saved Report

To retrieve a saved report:

1. Make sure the Reports tab is selected.
2. If more than one pump type is available, click the desired pump type, and then click View Saved Reports or View Reports (depending on pump type selected).
   - **NOTE**: If there are no reports saved in the database, then this option will not be available to you.
3. Select the report type and make filtering choices such as Patient ID or Pump Serial Number of the report you are looking for.
4. Click Show Report.

For a brief description of the pump reports, see [Retrieving a report from the pump](#).

### Saving a Report

If you retrieved a report from the pump, you will have the option to save it under a Patient ID. This applies to CADD-Prizm® PCS II Ambulatory Infusion Pumps only. Reports are automatically saved with CADD®-Solis Ambulatory Infusion Pumps when reports are downloaded.

**To save a report:**

1. In the Report Viewer window, click Save.
2. Enter the patient’s ID.
3. Click OK.
4. When “The report has been saved successfully” window appears, click OK. The report is now saved in your reports database.

### Printing a Report

Once you have retrieved a report from the pump or retrieved a saved report, you have the option to print it.

**To print a report:**

- In the Report Viewer window, click Print.
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