DEFINITION OF TERMS

- Hospira MedNet™ Software
  - Network based application software used to upload event logs and download the User-defined Drug Library to the infuser.
- Clinical Care Area (CCA)
  - An area of the hospital for which authorized hospital staff is allowed use of specific drugs. The clinician selects a CCA after turning on the infuser. The hospital may create from one to eighteen CCAs.
- Custom Syringe or Vial
  - A bar coded Hospira/Abbott sterile empty vial that is custom-filled by a pharmacy.
- Loading Dose
  - An optional dose delivered during Setup Mode.
- Rx Settings
  - The current programmed therapy. Includes PCA Dose, PCA Lockout Interval, Continuous Rate, Loading Dose and Dose Limit amount.
- Stored Protocols
  - Frequently used therapy settings stored in the infuser’s memory. Stored protocols can be recalled, making it unnecessary for the operator to repeatedly program all of the therapy settings each time they are needed. Stored protocols are determined by the health care facility.
- Standard Syringe
  - A prefilled bar coded drug vial in which the infuser identifies the drug and concentration. The drug and concentration are found in the Drug Library by using the bar code on the vial. Standard Syringes are also known as prefilled drug vials.
- Autoprogramming
  - Complete or partial program received from a bar code enabled point-of-care system requiring clinician confirmation prior to administration.

DEFINITION OF HARD KEYS AND ICONS

- used to control power on the infuser
- used to clear an entry
- used to select and accept various screen options
- used to return to the main display from non-programming screens
- used to temporarily silence an alarm while correcting a condition, to temporarily mute the keypad, or to adjust alarm volume when the infuser is in run mode
- used to start or pause a continuous infusion, or stop a PCA dose
- used to display parameter settings, dose history, review Rx, event log, and provides access to the Print History softkey
- the infuser is being operated without drug rule sets
- used to indicate that the upper soft limit has been overridden for a particular drug infusion parameter
- used to indicate that the lower soft limit has been overridden for a particular drug infusion parameter
- used to indicate an upper soft limit and lower soft limit has been overridden for different drug infusion parameters
- the wireless icon is only displayed on the waiting for Autoprogram screen and when the device is receiving a wireless signal. The infuser will connect to the network if a wireless network access point is recognized.
- softkeys(►) are touchkeys which are located to the right of the main display
TURNING ON THE INFUSER
There are two (2) ways to power on the infuser:
- UNLOCKING THE DOOR - Insert the PCA key into the security lock on the right side and turn counterclockwise. Press the button
  -OR-
- INSERTING AND LOADING A VIAL will automatically power on the infuser.

HOW TO LOAD VIALS (Startup Sequence - refer to side label for diagram)

(⚠️ WARNING: Failure to use compatible Hospira/Abbott vial/injector and Hospira/Abbott PCA sets with integral anti-siphon valve may cause an inaccurate dose delivery to the patient.)

1. Squeeze Cradle Release Mechanism together at the top of the holder and move to the uppermost position.
   (Note: Always confirm bar code reader window is clean before inserting vial. Wipe with a dry, soft, clean cloth or alcohol swab.)

2. When inserting bottom of glass vial into middle black bracket, ensure that the bar code label faces the bar code reader on the right side of the vial compartment.
   (⚠️ CAUTION: Do not load vial into upper vial clip first. Vial lip may crack or drip.)

3. Insert bottom of glass vial into the middle black bracket.

4. Gently press upper end of glass vial into upper black bracket.

5. Squeeze the top of the Cradle Release Mechanism and move down until the vial injector snaps into the bottom bracket.

6. Select CONTINUE to continue programming or select SYSTEM SETTINGS.
   (Note: Refer to side label on infuser for instructions on how to CHANGE SYSTEM SETTINGS for contrast, volume, and date/time.)

7. Follow screen prompts for NEW PATIENT? (if the infuser has been off for 4 hours or less).

8. If vial bar code is not read by infuser, slowly rotate the vial and position with the bar code on the right until bar code has been read. Once bar code is read, infuser will proceed to vial confirmation screen.

9. Vial drug name and concentration appears on screen. Select CONFIRM if vial matches patient order, otherwise remove vial.

10. Select CCA (if Hospira MedNet™ Software is enabled).
TO PROGRAM HOSPIRA/ABBOTT PREFILLED OR CUSTOM VIALS WITH PHARMACY GENERATED BAR CODES (With Hospira MedNet™ Software)
(Note: These are manual programming directions. For autoprogramming see page 9.)

1. NEW PATIENT? Select YES ▶ or NO ▶ ?
   (Note: Appears if the infuser has been off for 4 hours or less.)
   • If YES is selected - history and Rx is cleared
   • If NO is selected - history and Rx is retained
2. Select CONFIRM ▶ to confirm vial.
3. Choose CCA.
4. Follow startup sequence to Purge screen.
5. Purge? Select YES ▶ or NO ▶ ?
   (CAUTION: Disconnect the PCA set from patient before starting purge cycle. Press and hold purge key. Stop purging after flow is seen at the end of PCA set.)
6. Loading Dose? Select YES ▶ or NO ▶ ?
7. Select Delivery Mode (PCA only ▶, CONTINUOUS ▶, PCA + CONTINUOUS ▶ or PROTOCOLS ▶).
   (CAUTION: Protocols may be established by the pharmacy through the Hospira MedNet™ Software. Only protocols associated with the inserted drug vial will be available.)

EXAMPLE
8. Select PCA + CONTINUOUS.
9. Enter PCA Dose with numeric keypad and press ENTER .

EXAMPLE (Continued)
10. Enter Lockout Interval with numeric keypad and press ENTER .
11. Enter Continuous Rate with numeric keypad and press ENTER .
12. Set a dose limit? YES ▶ or NO ▶ ?
   • If YES, enter value with numeric keypad and press ENTER . select CONFIRM ▶
   • (Note: Dose Limit can be set to have a 1, 4, 6 or 12 hour dose limits by pharmacy.)
13. Program Review Screen appears, review entries then select CONFIRM ▶ -OR-
    Select PREVIOUS ▶ to return to previous screen.
14. Close and lock security door.
15. Press button for CONTINUOUS or PCA + CONTINUOUS (not required for PCA only mode).
TO PROGRAM CUSTOM VIALS
(Without Hospira MedNet™ Software)

(! CAUTION: Pay close attention to programming milligrams (mg) vs. micrograms (mcg) amounts when comparing to patient order.)
1. Follow startup sequence as outlined in HOW TO LOAD A VIAL.
2. Select CONFIRM to confirm insertion of custom vial.
3. Purge? Select YES or NO?

(! CAUTION: Disconnect the PCA set from patient before starting purge cycle. Press and hold purge key. Stop purging after flow is seen at the end of PCA set.)
4. Select units of measurement
5. Enter concentration of medication in custom vial.
6. Select CONFIRM if concentration entered is correct.

(! WARNING: If entered concentration (mg/mL or mcg/mL) does not match drug concentration in the vial, under or over delivery may result.)

TO PROGRAM HOSPIRA/ABBOTT PREFILLED VIALS
(Without Hospira MedNet™ Software)
1. Follow startup sequence to Purge screen.
2. Purge? Select YES or NO?

(! CAUTION: Disconnect the PCA set from patient before starting purge cycle. Press and hold purge key. Stop purging after flow is seen at the end of PCA set.)
3. Loading Dose? Select YES or NO?
4. Select Delivery Mode (PCA only, CONTINUOUS, PCA + CONTINUOUS or PROTOCOLS).

AUTOGRAPHING
(With Hospira MedNet™ Software and Autoprogramming Enabled)

1. Turn on infuser. NEW PATIENT? Select YES or NO?
   (Note: Appears if the infuser has been off for 4 hours or less.)
2. Select CCA.
4. Scan required elements. Infuser program will be auto-filled.
5. Confirmation screen will appear. Note that Loading Dose (if programmed) is located on the second confirmation screen. If information is correct, select CONFIRM.
6. Close and lock the door. Press START to begin infusion (continuous or PCA + continuous modes only).
   (Note: If an autoprogram is received and is incomplete, use manual programming to change or complete the order prior to the start of infusion.)
TO PROGRAM USING PROTOCOLS
1. Follow sequence TO PROGRAM PREFILLED VIALS (pg. 6) up to Select Delivery Mode screen (step 5).
   (CAUTION: Protocols may be established by the pharmacy through the Hospira MedNet™ Software or BioMed Mode (without Hospira MedNet™ Software). Only protocols associated with the inserted drug vial will be available.)
2. Select PROTOCOLS.
3. Press ENTER to accept protocol, or select NEXT PROTOCOL and PREVIOUS to view other stored protocols if available.
4. Select CONFIRM to accept settings of chosen protocol.
5. Close and lock door.

TO STOP AN INFUSION OR PCA DOSE
1. Close slide clamp on PCA administration set.
   (WARNING: Always close slide clamp on PCA administration set before removing or replacing syringe and before discontinuing an infusion.)
2. Unlock door
   -OR-
   Press button.

TO MAKE CHANGES TO RX
A. DURING SETUP
1. During programming, select PREVIOUS to move back to previous screens to make changes. Or, if programming is complete and screen displays CLOSE AND LOCK DOOR TO BEGIN, select CHG SETTINGS and follow screen prompts.

B. AFTER INFUSION HAS STARTED
1. Unlock door.
2. Select CHANGE RX.
3. SELECT SETTING TO CHANGE screen appears, choose one or select NEXT to display more change options.

EXAMPLE: TO CHANGE MODES
4. Select MODE.
5. Select new mode, old selection will be flashing.
6. Finish entering remaining screen prompts. Press to zero values and use keypad to enter new values. All previous selections will be flashing. If no change to value required on that screen, press .
7. When finished, screen will return to SELECT SETTING TO CHANGE screen.
8. Select SAVE & EXIT.
9. Select CONFIRM to confirm changes.
10. Close and lock door. Press button for CONTINUOUS or PCA + CONTINUOUS modes.
TO CHANGE VIALS
1. An EMPTY SYRINGE alarm appears along with the statement REPLACE SYRINGE.
2. Close slide clamp on PCA administration set.
3. Press \textit{VOLUME} button.
4. Insert key and unlock door.
5. Screen shows infuser is PAUSED.
6. Remove old vial by firmly grasping glass vial on both sides and pulling straight out.
7. A CHECK SYRINGE alarm will be experienced at this time.
8. Load in new vial - refer to side label for instructions.
9. Follow startup sequence.
10. Confirmation screen appears. Review screen and select CONFIRM.
12. Purge? Select YES or NO. \textit{(Note: Purging is recommended to remove slack when a vial is inserted. The system must be primed before purging.)}
13. Confirmation screen appears. Review the entered parameters and if correct select CONFIRM.
14. Close and lock door, begin infusion (Press \textit{START/STOP} button if in the CONTINUOUS or PCA + CONTINUOUS mode).

EXAMPLE: VIAL CHANGE TO SAME DRUG AND CONCENTRATION
12. Purge? Select YES or NO. \textit{(Note: Purging is recommended to remove slack when a vial is inserted. The system must be primed before purging.)}
13. Confirmation screen appears. Review the entered parameters and if correct select CONFIRM.
14. Close and lock door, begin infusion (Press \textit{START/STOP} button if in the CONTINUOUS or PCA + CONTINUOUS mode).

TO ADMINISTER SUPPLEMENTAL LOADING DOSE
1. Unlock door.
2. Select LOADING DOSE.
3. Enter LOADING DOSE value with numeric keypad and press \textit{ENTER}.
4. Press \textit{START/STOP} button to infuse.
5. Close and lock door.
6. After supplemental loading dose is infused, press START/STOP button if in the CONTINUOUS or PCA + CONTINUOUS mode to continue programmed infusion.

TO CLEAR SHIFT TOTALS
\textit{(Note: Review and Record shift totals first via the HISTORY button before clearing.)}
1. Unlock door.
2. Select CLEAR SHIFT.
3. Clear Shift Totals? YES or NO?
4. Select YES. Totals are then cleared.
5. Close and lock door.

TO ACCESS HISTORY AND SETTINGS
1. To Check History, press \textit{FUNCTION} button at any time.
2. Press \textit{FUNCTION} button or \textit{ENTER} button to scroll through history.
3. Continue to press \textit{FUNCTION} button or \textit{ENTER} button for more information such as:
   - Current Settings
   - Total Drug Delivered toward Dose Limit
   - Last 1-Hour Information (if configured)
   - Last 24-Hour Information (if configured)
   - Event Log
4. Press \textit{EXIT} to return to the main delivery screen.
TO TEMPORARILY MUTE KEYPAD
1. Press button and release.

TO TURN INFUSER OFF
1. Close slide clamp on the PCA administration set.
2. Unlock door.
3. Press button.

ALARMS
1. Press button to temporarily silence an alarm.
2. Identify alarm message by reading the screen.
3. Refer to ALARMS section of OPERATORS MANUAL for detailed instruction. See most common alarms listed below.
4. Clear the cause of the alarm if possible and press button to resume operation for CONTINUOUS or PCA + CONTINUOUS modes.

<table>
<thead>
<tr>
<th>MESSAGE(S)</th>
<th>POSSIBLE CAUSE(S)</th>
<th>CORRECTIVE ACTION(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar code Not Read</td>
<td>Vial not loaded properly</td>
<td>• Position vial correctly</td>
</tr>
<tr>
<td>Bar code Reader Window not clean</td>
<td>Bar code Reader</td>
<td>• Clean Bar code Reader window with soft, dry cloth or alcohol swab</td>
</tr>
<tr>
<td>Non-compatible vial</td>
<td>Non-compatible vial</td>
<td>• Use Hospira/Abbott vials</td>
</tr>
<tr>
<td>Occlusion Occlusion detected</td>
<td>Occlusion detected</td>
<td>• Open the security door if closed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Remove back pressure by squeezing and releasing the cradle release handles</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Identify and correct the cause of the occlusion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Alarm will self correct</td>
</tr>
<tr>
<td>Check Syringe or Check Vial or Check Injector</td>
<td>Vial or Syringe or Injector not properly loaded</td>
<td>• Properly insert vial or syringe or injector into the holder assembly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check Settings Door locked without appropriate therapy settings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Open the door, complete the settings</td>
</tr>
<tr>
<td></td>
<td>Empty Syringe Empty vial detected</td>
<td>• Press button to silence alarm. Unlock and open the security door and remove old vial by firmly grasping vial on both sides and pulling straight out</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• May turn infuser OFF while preparing new vial</td>
</tr>
<tr>
<td>Low Battery Dead Battery</td>
<td>Battery life has less than 30 minutes remaining and currently operating on battery power and/or battery life has expired</td>
<td>• Connect AC power</td>
</tr>
<tr>
<td>Patient Pendant</td>
<td>Faulty Pendant</td>
<td>• Replace with new pendant</td>
</tr>
<tr>
<td></td>
<td>Not secured to port</td>
<td>• Secure into port</td>
</tr>
</tbody>
</table>