

# USER GUIDE



Hospira, Inc., 275 North Field Drive, Lake Forest, IL 60045, USA

430-98325-001 (C, 2015-08)

Notes:

# Hospira MedNet<sup>™</sup> Meds<sup>™</sup>

# Software User Guide

**Rx Only** 

List 16037-64-02 and List 16037-64-03

#### IMPORTANT

Refer to this User Guide for complete instructions for use, warnings, and cautions associated with the Hospira MedNet<sup>™</sup> Meds<sup>™</sup> Software after it has been properly installed. Refer to the Installation and Configuration Guide for proper use, warnings, and cautions associated with installing and configuring the Hospira MedNet<sup>™</sup> Meds<sup>™</sup> Software. The help files included with the Hospira MedNet<sup>™</sup> Meds<sup>™</sup> Software are provided as reference only.

#### Intended Use

The Hospira MedNet<sup>™</sup> Medication Management Suite (MMS) is intended to facilitate networked communication between MMS compatible computer systems and Hospira Infusion pumps. The MMS provides trained healthcare professionals with the capability to send, receive, report, and store information from interfaced external systems, and to configure and edit infusion programming parameters.

The MMS is intended to provide a way to automate the programming of infusion parameters, thereby decreasing the amount of manual steps necessary to enter infusion data. All data entry and validation of infusion parameters is performed by a trained healthcare professional according to physician's orders.

Please read this entire guide before using the Hospira MedNet<sup>™</sup> Meds<sup>™</sup> Software.

For a list of Hospira MedNet™ compatible devices approved for your country and/or to obtain a copy of this guide, contact:

in the USA The Hospira Avanced Knowledge Center 1-800-241-4002

outside the USA The Support Center listed in your Hospira.com regional website

From our Hospira website, you can access our System Operating Manuals and this guide via the Support Center's Infusion Pumps + Clinical Software.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

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# **Change History**

#### Part Number

430-98325-001 (A, 2015-06) 430-98325-001 (B, 2015-08) 430-98325-001 (C, 2015-08) **Description of Change** Initial Release Added List Number 16037-64-03 Added hypertext marker help links

**Pages Changed** 

Title Page

Hospira MedNet Meds Software User Guide Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

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# **Chapter 1: Introduction**

Hospira MedNet<sup>TM</sup> is a server-based safety software product intended for use in healthcare facilities by trained healthcare professionals to provide valuable bedside guidance by managing IV infusion information with compatible Hospira infusion systems. The Hospira MedNet<sup>TM</sup> suite of software also includes a separate application, Hospira MedNet<sup>TM</sup> Meds<sup>TM</sup>.

Hospira MedNet<sup>™</sup> software enhances safety at the point of care with highly customizable drug libraries that guides users and help to protect patients by alerting to hard and soft, upper and lower dosing limits intended to help prevent infusion errors. These limits are based on a hospital's specific IV administration practices.

Hospira MedNet<sup>™</sup> software reduces manual programming steps by providing the option to allow pharmacy settings to flow directly into the compatible infusion pumps through the IV Clinical Integration (IVCI) solution. Hospira MedNet<sup>™</sup> software connects the pharmacy validated medication order with the infusion pump and the patient's electronic medical record (EMR), providing the opportunity for automated programming of the infusion pump.

Hospira MedNet<sup>™</sup>software generates more than 20 different reports based on data, settings, and changes that are automatically and wirelessly collected from the compatible infusion pumps. The generated reports help to turn data into actionable data to provide visibility to clinical practice. Depending on the EMR system capability, automated documentation in the EMR is also supported by Hospira MedNet<sup>™</sup>.

Hospira MedNet<sup>™</sup> software packages consist of the components listed below. The specific components available to you will depend on your institution's license.

**Hospira MedNet**<sup>TM</sup> Administrator<sup>TM</sup> provides the ability to manage system users, infusers, drug library downloads, infuser software updates, access points, and other configurations.

**Hospira MedNet**<sup>TM</sup> **Connect**<sup>TM</sup> establishes the connectivity between the Hospira MedNet<sup>TM</sup> server and the infusers. It incorporates ethernet and wireless components permitting Hospira MedNet<sup>TM</sup> Meds<sup>TM</sup> and Hospira MedNet<sup>TM</sup> Administrator<sup>TM</sup> to exchange information with infusers.

**Hospira MedNet**<sup>TM</sup> **Integrator**<sup>TM</sup> provides interfaces to a hospital's enterprise level applications and serves as the conduit for the exchange of data between infusers, the Hospira MedNet<sup>TM</sup> server, and a variety of hospital information systems.

**Hospira MedNet**<sup>TM</sup> **Meds**<sup>TM</sup> provides functionality to the pharmacy for the definition and management of medications, drug libraries, clinical care areas, and infuser configurations.

**Hospira MedNet**<sup>TM</sup> **Performance**<sup>TM</sup> delivers data from the Hospira MedNet<sup>TM</sup> server into reports designed for asset management as well as clinical assessment of Hospira MedNet<sup>TM</sup> use with selectable options to best meet the needs of the user.

**Hospira MedNet**<sup>TM</sup> **Programmer**<sup>TM</sup> takes medication dispensing orders from the Bar Code Medication Administration (BCMA) system and translates them into operational commands which automatically populate settings on the infuser. For more information, see **Hospira MedNet**<sup>TM</sup> **Software User Guide**, Appendix B.

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# Terminology

This document uses the following conventions:

- References to specific values are approximations only, unless otherwise indicated.
- The terms "Hospira MedNet<sup>™</sup> Software" and "the Software" are used interchangeably throughout this manual.

# **General Warnings and Cautions**

The following conventions are used in this user guide to denote warnings or cautions:

**Caution:** Contains information that could prevent product damage or hardware failure. Failure to observe a caution could result in patient or user injury.

**WARNING:** Warning messages contain special safety emphasis and must be observed at all times. Failure to observe a warning message is potentially life threatening.

**Caution:** Federal (USA) law restricts this device to sale by or on the order of a physician or other licensed practitioner.

**Note:** Illustrations and screen representations are for illustrative purposes only and may vary from the actual software. Your computer's display settings may affect screen representations.

# **Computer Management and Security**

- Except for virus data files (typically called "dat" files), do not install upgrades, service packs, or patches to non-Hospira software on computers on which Hospira MedNet<sup>TM</sup> Software is installed, except as authorized by Hospira.
- Do not enable automatic updates to operating systems on computers on which Hospira MedNet<sup>™</sup> Software is installed.
- Ensure that procedures are in place for backing up and restoring data, and that administrators can successfully restore data from earlier backups.
- Ensure that the network on which Hospira MedNet<sup>™</sup> Software is used has effective security procedures in place, including physical and network access control.
- Ensure that user passwords are protected.
- Ensure a backup power supply (uninterrupted power source) is available to prevent critical data loss.
- **Important:** We highly recommend that you regularly backup and purge your database. A database can grow to a large size that will affect the performance of your Hospira MedNet<sup>™</sup> system.

Although we suggest to purge a database every four years at a minimum, if you have more than 2,000 infusers it would be wise to consider doing so more often. Complete backup instructions are in the Installation and Configuration Guide or you can consult our Advanced Knowledge Center.

# **Handling Infusers**

- Refer to the *System Operating Manual* for the applicable infuser for warnings and cautions before handling the infusers.
- Use care when handling connectors and cables.
- Avoid twisting or bending cables and connectors.
- Ensure compliance to IEC 60601-1-1 for connecting accessories to medical devices.

**Note:** The infusion devices compatible with Hospira MedNet will display selectable options based on your licensing and Hospira's compatibility matrix.

# **Transferring Data**

- Ensure that only one instance of the Hospira MedNet<sup>™</sup> Meds<sup>™</sup> software is running on a computer at a time.
- To avoid inconsistencies between drug libraries, and reports, ensure that all infusers are using the same drug library version.

#### Notes:

# **Chapter 2: Logging In and Out**

# Logging In

To log into the Hospira MedNet Meds software:

1. Double-click the Hospira MedNet Meds 6.1 icon on the Windows desktop.



2. Enter your user ID and password into the appropriate fields. Each field must be between 8 and 20 characters.

C Hospira MedNet™ Meds™	
FOR USE WITH HOSPIRA COMPATIBLE INFUSERS	
User ID: Password: Log In Clear	
Hospira MedNet <sup>***</sup> Meds <sup>***</sup> 06.10	
Egit	
Hospira, Inc. 275 North Field Drive Rx Only Lake Forest, IL 60045 USA	×

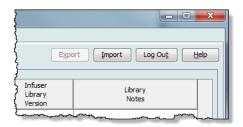
3. Click Log In.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

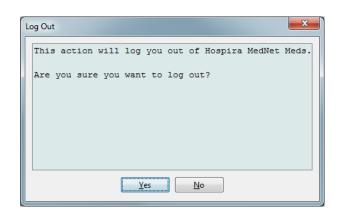
# Logging Out and Exiting

#### To log out of Hospira MedNet Meds software:

1. Click Log Out.



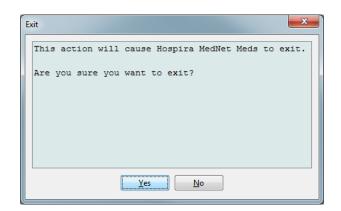
2. Click Yes.



#### 3. Click Exit.

Ľ	Hospira MedNet <sup>™</sup> Meds <sup>™</sup>	X-
	FOR USE WITH HOSPIRA COMPATIBLE INFUSERS	
	User ID: Password: Log In Clear	
	Hospira MedNet <sup>***</sup> Meds <sup>***</sup> 06.10	
	Hospira, Inc. 275 North Field Drive Lake Forest, IL 60045 USA	Only

4. Click Yes.



Note: You will be automatically logged out of the application after 60 minutes of inactivity.

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#### Notes:

# **Chapter 3: Configuration**

# **Overview**

The configuration view allows you to set either English (United States) or French (Canadian). Once you make a selection, the software will display all information in that language.

The default language is English (United States).

Libraries associated with a language will be viewed, edited, imported or finalized in that language option.

For English (United States), the date format is displayed as mmddyyyy, and the distal pressure unit is psi.

For French (Canadian), the date format can be displayed as follows:

- dd/mm/yy
- dd/mm/yyyy
- dd/mmm/yy
- dd/mmm/yyyy

and the distal pressure unit is mmHg.

You will need to navigate to the Configuration tab and make your selection.

ibrary Directory	Medications	Configura	tion
Language		7	
English (United States)	ted States)		
🔘 French (Car	nadian)		

Click Save and the appropriate language will be applied immediately.

**Note:** The language selected in Hospira MedNet Meds will automatically apply to the Hospira MedNet Software.

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#### Notes

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# **Chapter 4: Medication List**

# Overview

The **Medication List** is the list of medications used by the hospital; it contains important data elements used in the development of drug libraries for the infusers used in your hospital.

In this chapter, you will learn how to create, import, and manage the Medication List. The chapters that follow contain detailed information on developing a drug library.

**Note:** When a user is in the Medication List, no other user can be in the Medication List or any library. Each library allows only one user at a time. When you are using a library, no other user can be in the Medication List.

#### Identifying medications in the Medication List

The Medication List requires each medication to have an External identifier (ID). The External ID is especially important if your Hospira MedNet system is integrated with another system that sends programming information to the infuser. The External ID is used to assure a match between the medication sent by the sending system and the medication rule set used by the Hospira MedNet software.

#### Considerations for assigning an External ID

If Hospira MedNet is to be integrated with another system (such as a BCMA system) that sends programming information to the infuser (medication, concentration, rate, etc.), each generic name in the Medication List must have a unique External ID. This External ID must be also be used by the sending system (in this case, the BCMA system). This allows, for example, all dopamine products, such as amps, vials, and syringes, to be represented as a single entry in the Medication List referring to the generic name "dopamine." The corresponding generic level External ID number will vary depending on the BCMA system integrated to Hospira MedNet, for example, catalog code or Multum ID for Cerner Millennium, etc. Your Pharmacy Consultant will work with you to create the correct file for your implementation.

If Hospira MedNet is not to be integrated with another hospital system that sends programming information to the infuser, all that is required is that each item in the Medication List has a corresponding External ID. In this case, you may want to have various manufacturers or package sizes of the same medication represented in the Medication List. Each generic name can appear multiple times as long as each has its own unique External ID. Numeric sequences or charge master identifiers can be used for this purpose.

### How External ID is used in Drug Libraries

When a drug library is developed, certain rules (listed below) that involve the External ID are enforced.

Within a drug library, for medication entries in a Clinical Care Area (CCA):

- 1. There can be only one rule set for each combination of External ID and Concentration.
- 2. There can be only one rule set for each combination of Displayed Name and Concentration.

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These rules enable both the Hospira MedNet software and the infuser software to positively identify the specific medication rule set in the drug library.

# **Import a Medication List**

A Medication List file may be imported into Hospira MedNet Meds multiple times. Each import file should contain all medications that can be infused even if they have been imported previously.

#### Formatting the CSV file

Importing a Medication List involves the creation of a Comma Separated Value (.csv) file containing the medication information. Your pharmacy system may support creating a file in this format or in a similar format that can be manipulated in Excel. The file can have 12 columns as specified below, if importing an entire Medication List. However, if you want to edit only the External ID and Generic Names, you can do it through the Export feature as described in *Export a Medication List*.

- a. The first line of the file is ignored by the Medication List Import function. It should contain the field names in the table below.
- b. Each subsequent line in the file should include one medication entry per line.
- c. Each subsequent line in the file must include data in the External ID and Generic Name fields.

Field Name	Field Type	Number of Characters allowed <sup>1</sup>
External ID	String	20
NDC	String	20
Generic Name	String	100
Brand Name	String	100
Strength	Numeric	20
Strength Units	String	25
Volume	Numeric	20
Volume Units	String	25
Therapeutic Class ID	String	20
Therapeutic Class Description	String	200
Dosage Form ID	String	20
Dosage Form Description	String	200
<sup>1</sup> Comma (,), angle bracket ( $>$ ), and double-qu the import file.	ote (") characters are	not permitted within fields in

Note: External ID and Generic Name are the only fields in which data is required.

The Medication List can be created as a spreadsheet and saved in .csv format to be imported. An example of a 12-column spreadsheet containing the medication list information is as follows:

Hospira MedNet Meds Software User Guide Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

External					Strength		Volume	Therapeutic		Dosage	Dos. Form
ID	NDC	Generic Name	Brand Name	Strength	Unit	Volume	Units	Class ID	Therapeutic Class Description	Form	D escription
1738	00173-0362-38	RANITIDINE	ZANTAC	50	MG	2	ML	56.28.12	HISTAMINE H2-ANTAGONISTS1	VL	VIAL
2823	67286-0040-02	RETEPLASE	RETAVASE	10	UNITS	10	ML	28 12.20	THROMBOLYTIC AGENTS\1	VL	VIAL
2790	00944-2967-05	RH0(D) IMMUNE GLOBULIN(WINRH0)	WINRHO	1000	MCG	4.4	ML	80:04.00	SERUMS	VL	VIAL
2665	55390-0123-01	RIFAMPIN	RIFADIN (EQ)	600	MG	1	VIAL	08 16.00	ANTIMYCOBACTE RIALS 1	VL	VIAL
412	00052-0450-15	ROCURONIUM	ZEMURON	50	MG	5	ML	12:20.20	NEUROMUS CULAR BLOCKING AGENTS 1	VL	VIAL
2412	00186-0863-77	ROPIVACAINE 0.5%	NAROPIN			30	ML	72:00.00	LOCAL ANESTHETICS (PARENTERAL)	VL	VIAL
32	00270-0556-15	SINCALIDE	KINEVAC	5	MCG	1	VIAL	36:34.00	GALLBLADDER FUNCTION	VL	VIAL
610	00409-6609-02	SODIUM BICARBONATE 4%	SODIUM BICARBONATE 4%			5	ML	40:08.00	ALKALINIZING AGENTS	VL	VIAL
1918	00409-6625-02	SODIUM BICARBONATE 8.4%	SODIUM BICARBONATE 8.4%	50	MEQ	50	ML	40.08.00	ALKALINIZING AGENTS	VL	VIAL
555	00409-1966-14	SODIUM CHLORIDE 0.9% BACT	SODIUM CHLORIDE 0.9% BACT			30	ML	40:12.00	REPLACEMENT PREPARATIONS	VL	VIAL
579	00409-4888-12	SODIUM CHLORIDE PF 0.9%	SODIUM CHLORIDE PF 0.9%			10	ML	40.12.00	REPLACEMENT PREPARATIONS	VL	VIAL
580	00409-4888-50	SODIUM CHLORIDE PF 0.9%	SODIUM CHLORIDE PF 0.9%			50	ML	40:12.00	REPLACEMENT PREPARATIONS	VL	VIAL
612	00409-6629-02	SUCCINYLCHOLINE	SUCCIN/LCHOLINE	200	MG	10	ML	12:20.20	NEUROMUS CULAR BLOCKING AGENTS 1	VL	VIAL
1662	00703-9514-03	SULFAMETH/TRIMETH	BACTRIM (EQ.)			10	ML	08.12.20	SULFONAMIDES (SYSTEMIC)	VL	VIAL
2329	00029-6571-26	TICARCILLIN/CLAVULANATE	TIMENTIN	3.1	GM	1	VIAL	08.12.16	PENICILLINS	VL	VIAL
10	63323-0303-55	TOBRAMYCIN	TOBRAMYCIN	1.2	GM	1	VIAL	08.12.02	AMINOGLYCOSIDES	VL	VIAL
1461	63323-0306-55	TOBRAMYCIN	TOBRAMYCIN	80	MG	2	ML	08 12.02	AMINOGLYCOSIDES	VL	VIAL

#### **Considerations for the Medication List Import File in CSV format**

Save the file to .csv format. Extracts from information systems are commonly Excel files, tabseparated files, or pipe-separated files. Each of these can be saved as a CSV file using Excel.

Remove any rows or columns in the CSV file that do not contain required data. Ensure there are 12 columns.

Evaluate the information provided to determine how the fields provided can map to the import file specifications.

- a. Is there an identifier for each drug that can be used for External ID?
- b. Does each drug have a Generic Name that contains only the generic name (without strength, volume, or dosage form)?
- c. Are Therapeutic Class ID and Description provided?

Therapeutic Class MUST have an ID. The Description is optional. (If only a Description is supplied, use the same information for ID and Description. Copy the Description column to the ID column.)

d. Is there data for Dosage Form ID and Description?

Dosage Form MUST have an ID. The Description is optional. (If only a Description is supplied, use the same information for ID and Description. Copy the Description column to the ID column.)

Remove medications that cannot be infused on a pump from the list.

Format the columns in the file to match the import file specifications.

- a. Ensure that all columns are present and are named correctly (even if there is no data contained in them).
- b. Ensure that columns are in the proper order.
- c. Remove special characters (commas, left and right angle brackets, and double quote characters).

In Excel, from the Edit menu, you may use the Find/Replace option.

- Find comma character, replace with blank.
- Find left angle bracket character, replace with left parenthesis
- Find right angle bracket character, replace with right parenthesis
- Find double quote character, replace with single quote

Final check:

a. Sort file by External ID.

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- b. A particular External ID should only appear in one row in the file.
- c. Ensure that each medication has data in both the External ID and Generic Name columns.
- d. A Generic Name can appear multiple times in the file with different External IDs.

#### Importing the Medication List

**Important:** Importing the Medication List replaces any medications already in the list. Complete instructions are provided in the next segment, Working with the Medication List, on page 16.

Once the file has been formatted as described above:

ibrary Directory Medic	ations Configuration							
how active medication	s	with any	generic na	me or exter	nal ID 💌	A	Apply Refre <u>s</u> h	Active meds:8
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
ACETAZOLAMIDE	DIAMOX (EQ)	3468	100 MG	1 ML	**	05/06/2013 12:00	active	
CETAZOLAMIDE	DIAMOX (EQ)	1384	500 MG	5 ML	VIAL	05/06/2013 12:00	active	
CETYLCYSTEINE	MUCOMYST (EQ)	2708	200 MG	1 ML	**	05/06/2013 12:00	active	
CETYLCYSTEINE 36	ACETYLCYSTEINE 36	2745	36 GM	180 ML	VIAL	05/06/2013 12:00	active	
CYCLOVIR	ZOVIRAX (EQ)	705	50 MG	1 ML	**	05/06/2013 12:00	active	
CYCLOVIR	ZOVIRAX (EQ)	1701	500 MG	10 ML	VIAL	05/06/2013 12:00	active	
CYCLOVIR-D5W	ACYCLOVIR-D5W	3760	7 MG	1 ML	INFSYR	05/06/2013 12:00	active	
DENOSINE	ADENOSCAN	3284	3 MG	1 ML	**	05/06/2013 12:00	active	
DENOSINE	ADENOCARD	1562	90 MG	30 ML	VIAL	05/06/2013 12:00	active	
DENOSINE	ADENOCARD (EQ)	2411	6 MG	2 ML	VIAL	05/06/2013 12:00	active	
LBUMIN 25%	ALBUMIN 25%	424	12.5 GM	50 ML	IV BTL	05/06/2013 12:00	active	
LBUMIN 5%	ALBUMIN 5%	421	12.5 GM	250 ML	IV BTL	05/06/2013 12:00	active	
LBUMIN 5%	ALBUMIN 5%	422	25 GM	500 ML	IV BTL	05/06/2013 12:00	active	
LCOHOL ETHYL	ABSOLUTE ALCOHOL	1060		1 ML	AMP	05/06/2013 12:00	active	
LDESLEUKIN	PROLEUKIN	2144	1.1 MG	1 ML	**	05/06/2013 12:00	active	
LEMTUZUMAB	CAMPATH	3534	30 MG	1 ML	**	05/06/2013 12:00	active	
LPROSTADIL	PROSTIN VR PED (EQ)	3029	500 MCG	1 ML	**	05/06/2013 12:00	active	
LPROSTADIL	PROSTIN VR PED (EQ)	194	500 MCG	1 ML	AMP	05/06/2013 12:00	active	
LTEPLASE	CATHFLO	2760	2 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
LTEPLASE	ACTIVASE	2769	1 MG	1 ML	**	05/06/2013 12:00	active	
ALTEPLASE	ACTIVASE	2768	50 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
LTEPLASE	CATHFLO	3793	1 MG	1 ML	**	05/06/2013 12:00	active	
ALTEPLASE	ACTIVASE	1259	100 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
MIKACIN	AMIKACIN	1439	250 MG	1 ML	**	05/06/2013 12:00	active	
MIKACIN	AMIKACIN	211	500 MG	2 ML	VIAL	05/06/2013 12:00	active	
MINO ACID 2%-DEX	AMINO ACID 2%-DEX	3422	500110	250 ML	IV BAG	05/06/2013 12:00	active	
MINO ACIDS 10%	TROPHAMINE	976		500 ML	BTL	05/06/2013 12:00	active	
MINO ACIDS 15%	AMINO ACIDS 15%	626		2000 ML	IV BAG	05/06/2013 12:00	active	
MINO ACIDS 15%	HEPATAMINE 8%	977		500 ML	BTL	05/06/2013 12:00	active	
MINOCAPROIC ACID	AMICAR (EQ)	1669	0.25 GM	1 ML	**	05/06/2013 12:00	active	
MINOCAPROIC ACID	AMICAR (EQ)	1062	5 GM	20 ML	VIAL	05/06/2013 12:00	active	
MINOPHYLLINE	AMINOPHYLLINE	1051	250 MG	10 ML	VIAL	05/06/2013 12:00	active	
	AMINOPHYLLINE	1051	250 MG	20 ML	VIAL	05/06/2013 12:00	active	
MINOPHYLLINE MINOPHYLLINE-NSS	AMINOPHYLLINE AMINOPHYLLINE-NSS	3927	2.5 MG	20 ML 1 ML			active	
						05/06/2013 12:00		
MIODAKONE	CORDARONE (EQ)	1718	150 MG	3 ML	VIAL	05/06/2013 12:00	active	

1. From the Medication List view, select Import.

The File to Import screen displays.

2. Navigate to the location of the Medication List to import.

🗹 File to Import							×
Look in:	📃 Desktop			•	•	• 🔝 🏓	
Recent Items Desktop My Documents	Libraries Cécle Lax Computer Network E 6.0 MMU D CecileDB LG-01.00.1 MedNet so	0B install 00.043-CD 1 ource 5.8					
	File <u>n</u> ame:	meds lists.csv					<u>S</u> elect
Network	Files of <u>t</u> ype:	Comma Separa	ted Files (*.csv)	)		•	Cancel

3. Click **Select**. A pop-up window displays a preview of changes to the Medication List. Medications that are being added are displayed in green. If the Medication List currently contains medications, you will see medications that are being deleted displayed in red and medications that are being updated displayed in blue.

Importing file DefaultMe 108 medication(s) wil 404 medication(s) wil	l be added.						
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Upd	Status
3% Hypertonic NaCl		3				07/29/2013 17:08	obsolete
5% Hypertonic NaCl		4				07/29/2013 17:08	obsolete
Abciximab	Abciximab	EXT_ID_001			code_1		active
Abciximab (Reopro)		132				07/29/2013 17:08	obsolete
Acetaminophen		1015				07/29/2013 17:08	obsolete
Acetylcysteine		133				07/29/2013 17:08	obsolete
Acyclovir	Acyclovir	EXT_ID_002			code_2		active
Acyclovir (Zovirax)		5				07/29/2013 17:08	obsolete
Adenosine *FFR		337				07/29/2013 17:08	obsolete
Adenosine Syringe		267				07/29/2013 17:08	obsolete
Albumin	Albumin	EXT_ID_003			code_3		active
Amikacin IVPB		9				07/29/2013 17:08	obsolete

- 4. If satisfied with the preview, click **OK**.
- 5. To prevent the import, click Cancel.
- 6. If you selected **OK**, a message confirming the import displays.

Import Complete	×
Medication List import completed.	
QK	

7. Click OK.

Note: It is not possible to undo the import of the medication list once it has been completed.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### Working with the Medication List

Importing a Medication List file completely replaces the existing list. Any medication entries in a Worksheet that are associated with medications that are no longer in the medication list must be deleted or reassigned to a new medication before the Worksheet can be finalized.

The following table summarizes the behavior when a new medication list is imported when there are already medications present in the list:

Medication present in the Medication List	Medication present in Import File	Action
Y	Ν	Removed
Y	Y	Updated
N	Y	Added

For LifeCare PCA Worksheets, the user will be prompted to delete any protocols associated with medications that have been deleted when the worksheet is opened.

For customers with the Hospira MedNet Meds Formulary Interface, any medications currently in "pending" status will be removed when a medication list is imported.

### **Medication List View**

The Medication List view displays:

- Generic Name
- Brand Name
- External ID
- Strength
- Volume
- Dosage Form
- Received/Updated
- Status

You can filter the medications displayed by:

- active medications
- active and pending medications
- pending medications

with

- any generic name or External ID
- generic names beginning with (any character)
- External IDs beginning with (any character)

how active medication	S	with any	generic nar	ne or exter	nal ID 🔻	A	pply Refre <u>s</u> h	Active meds:8
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
ACETAZOLAMIDE	DIAMOX (EQ)	3468	100 MG	1 ML	**	05/06/2013 12:00	active	
ACETAZOLAMIDE	DIAMOX (EQ)	1384	500 MG	5 ML	VIAL	05/06/2013 12:00	active	
ACETYLCYSTEINE	MUCOMYST (EQ)	2708	200 MG	1 ML	**	05/06/2013 12:00	active	
ACETYLCYSTEINE 36	ACETYLCYSTEINE 36	2745	36 GM	180 ML	VIAL	05/06/2013 12:00	active	
ACYCLOVIR	ZOVIRAX (EQ)	705	50 MG	1 ML	**	05/06/2013 12:00	active	
ACYCLOVIR	ZOVIRAX (EQ)	1701	500 MG	10 ML	VIAL	05/06/2013 12:00	active	
ACYCLOVIR-D5W	ACYCLOVIR-D5W	3760	7 MG	1 ML	INFSYR	05/06/2013 12:00	active	
ADENOSINE	ADENOSCAN	3284	3 MG	1 ML	**	05/06/2013 12:00	active	
ADENOSINE	ADENOCARD	1562	90 MG	30 ML	VIAL	05/06/2013 12:00	active	
ADENOSINE	ADENOCARD (EQ)	2411	6 MG	2 ML	VIAL	05/06/2013 12:00	active	
ALBUMIN 25%	ALBUMIN 25%	424	12.5 GM	50 ML	IV BTL	05/06/2013 12:00	active	
ALBUMIN 5%	ALBUMIN 5%	421	12.5 GM	250 ML	IV BTL	05/06/2013 12:00	active	
ALBUMIN 5%	ALBUMIN 5%	422	25 GM	500 ML	IV BTL	05/06/2013 12:00	active	
ALCOHOL ETHYL	ABSOLUTE ALCOHOL	1060		1 ML	AMP	05/06/2013 12:00	active	
ALDESLEUKIN	PROLEUKIN	2144	1.1 MG	1 ML	**	05/06/2013 12:00	active	
ALEMTUZUMAB	CAMPATH	3534	30 MG	1 ML	**	05/06/2013 12:00	active	
ALPROSTADIL	PROSTIN VR PED (EQ)	3029	500 MCG	1 ML	**	05/06/2013 12:00	active	
ALPROSTADIL	PROSTIN VR PED (EQ)	194	500 MCG	1 ML	AMP	05/06/2013 12:00	active	
ALTEPLASE	CATHFLO	2760	2 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
ALTEPLASE	ACTIVASE	2769	1 MG	1 ML	**	05/06/2013 12:00	active	
ALTEPLASE	ACTIVASE	2768	50 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
ALTEPLASE	CATHFLO	3793	1 MG	1 ML	**	05/06/2013 12:00	active	
ALTEPLASE	ACTIVASE	1259	100 MG	1 VIAL	VIAL	05/06/2013 12:00	active	
AMIKACIN	AMIKACIN	1439	250 MG	1 ML	**	05/06/2013 12:00	active	
AMIKACIN	AMIKACIN	211	500 MG	2 ML	VIAL	05/06/2013 12:00	active	
AMINO ACID 2%-DEX	AMINO ACID 2%-DEX	3422		250 ML	IV BAG	05/06/2013 12:00	active	
AMINO ACIDS 10%	TROPHAMINE	976		500 ML	BTL	05/06/2013 12:00	active	
AMINO ACIDS 15%	AMINO ACIDS 15%	626		2000 ML	IV BAG	05/06/2013 12:00	active	
AMINO ACIDS 8%	HEPATAMINE 8%	977		500 ML	BTL	05/06/2013 12:00	active	
MINOCAPROIC ACID	AMICAR (EQ)	1669	0.25 GM	1 ML	**	05/06/2013 12:00	active	
MINOCAPROIC ACID	AMICAR (EQ)	1062	5 GM	20 ML	VIAL	05/06/2013 12:00	active	
AMINOPHYLLINE	AMINOPHYLLINE	1051	250 MG	10 ML	VIAL	05/06/2013 12:00	active	
MINOPHYLLINE	AMINOPHYLLINE	1052	500 MG	20 ML	VIAL	05/06/2013 12:00	active	
MINOPHYLLINE-NSS	AMINOPHYLLINE-NSS	3927	2.5 MG	1 ML	INFSYR	05/06/2013 12:00	active	
MIODARONE	CORDARONE (EQ)	1718	150 MG	3 ML	VIAL	05/06/2013 12:00	active	

**Note:** Pending medications will only display when the Hospira MedNet Meds Formulary Interface is installed. See Appendix B: Hospira MedNet Meds Formulary Interface on page 237.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Add a Medication

1. Click the **Medications** tab.

😨 Hospira MedNet™ N	1eds™							
Library Directory Medica	ations Configuration							
Show active medications	5	with any	generic nar	ne or exter	nal ID 🔻	A	pply Refre <u>s</u> h	Active meds:865
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
ACETAZOLAMIDE	DIAMOX (EQ)	3468	100 MG	1 ML	**	05/06/2013 12:00	active	
ACETAZOLAMIDE	DIAMOX (EQ)	1384	500 MG	5 ML	VIAL	05/06/2013 12:00	active	
ACETYLCYSTEINE	MUCOMYST (EQ)	2708	200 MG	1 ML	**	05/06/2013 12:00	active	
ACETYLCYSTEINE 36	ACETYLCYSTEINE 36	2745	36 GM	180 ML	VIAL	05/06/2013 12:00	active	
ACYCLOVIR	ZOVIRAX (EQ)	705	50 MG	1 ML	**	05/06/2013 12:00	active	
ACYCLOVIR	ZOVIRAX (EQ)	1701	500 MG	10 ML	VIAL	05/06/2013 12:00	active	
AMINOPHYLLINE-NSS	AMINOPHYLLINE-NSS	3927	2.5 MG	1 ML	INFSYR	05/06/2013 12:00	active	
AMIODARONE	CORDARONE (EQ)	1718	150 MG	3 ML	VIAL	05/06/2013 12:00	active	<b>•</b>
Add Edit	<u>D</u> elete <u>R</u> eview	w Pre <u>f</u> eren	ces	Ex	port <u>I</u> mpo	rt Pri <u>n</u> t	Sa <u>v</u> e to File	g Ou <u>t</u> <u>H</u> elp

#### 2. Click Add.

Generic Name:						
Brand Name:						
External ID:				NDC:		
_	А	mount:			Unit:	
Strength:						
Volume:						
Therapeutic Class	s:					 
Code:						
Description:						 
Code				Descripti	on	
08:12.12	MACROLID					
20:12.18		AGGREGATI	ION INHI	IBITORS		
08:18.20	INTERFER					 
88:16.00	VITAMIN D					
40:28.08	LOOP DIUF	RETICS\1				-
4						
						Þ
Dosage Form: —						Þ
				1		
Dosage Form:				1		
Dosage Form: — Code:				Descripti	on	
Dosage Form: — Code: Description: Code IV BAG	IV BAG			Descripti	on	
Dosage Form: — Code: Description: Code	IV BAG **			Descripti	on	
Dosage Form: — Code: Description: Code IV BAG				Descripti	on	
Dosage Form: — Code: Description: Code IV BAG **	**			Descripti	on	
Dosage Form: Code: Description: Code IV BAG ** VIAL AMP SYR	** VIAL			Descripti	on	
Dosage Form: Code: Description: IV BAG ** VIAL AMP	** VIAL AMP			Descripti	on	
Dosage Form: Code: Description: Code IV BAG ** VIAL AMP SYR	** VIAL AMP			Descripti	on	
Dosage Form: Code: [ Description: [ Code IV BAG ** VIAL AMP SYR 4	** VIAL AMP			Descripti	on	

- 3. Enter the medication name into the Generic Name field. This is a mandatory field.
- 4. Enter the Brand Name (optional field).
- 5. Enter the External ID. This is a mandatory field.

- 6. Enter the following optional information, if needed:
  - NDC (National Drug Code)
  - Strength Amount and Unit
  - Volume Amount and Unit
  - Therapeutic Class Code and Description (click on a row in the table to select)
  - Dosage Form Code and Description (click on a row in the table to select)
- **Note:** The contents of the Therapeutic Class and Dosage Form tables are determined by the information in the Medication List import file. If you have the Hospira MedNet Formulary Interface, these tables will be updated as new Dosage Forms and Therapeutic Classes are processed.

Status, Source, Created On, Last Edited On, and Last Edited By, will be filled automatically after the medication has been added.

- **Caution:** Generic names cannot contain the special characters greater than (>), less than (<), ampersand (&), double quotes ("), and single quotes (').
  - 7. Click Save.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Edit a Medication**

1. From the Medication List view, highlight the medication you want to edit.

Show active medication:	S	💌 with any	generic nar	ne or exter	nal ID 🔻	A	oply Refre <u>s</u> h	Active meds:86
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
PIPERACILLIN/TAZOB	ZOSYN 3.375 GM	3773		50 ML	IV BAG	05/06/2013 12:00	active	
PROCAINAMIDE	PROCAINAMIDE	553	1 GM	10 ML	VIAL	05/06/2013 12:00	active	
PROCAINAMIDE	PROCAINAMIDE	1873	0.5 GM	1 ML	**	05/06/2013 12:00	active	
PROCALAMINE	PROCALAMINE	1920		1000 ML	IV BTL	05/06/2013 12:00	active	
PROCHLORPERAZINE	COMPAZINE (EQ)	2514	5 MG	1 ML	**	05/06/2013 12:00	active	
PROMETHAZINE	PHENRGAN (EQ)	3224	25 MG	1 ML	**	05/06/2013 12:00	active	
PROMETHAZINE	PHENERGAN (EQ)	1143	25 MG	1 ML	AMP	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	983	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	2185	1000 MG	100 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	1783	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3888	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3889	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
PROPRANOLOL	INDERAL (EQ)	388	1 MG	1 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE	PROTAMINE	3076	50 MG	5 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE (CV OR	PROTAMINE (CV OR	5	250 MG	25 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE SULFATE	PROTAMINE SULFATE	3931	10 MG	1 ML	**	05/06/2013 12:00	active	
PYRIDOSTIGMINE	PYRIDOSTIGMINE	2371	10 MG	2 ML	VIAL	05/06/2013 12:00	active	
PYRIDOXINE	VITAMIN B-6	3264	100 MG	1 ML	**	05/06/2013 12:00	active	

- 2. Click Edit.
- 3. Make the changes needed.

Edit Medic	cation	
Generic Name	PROPOFOL	
Brand Name:	DIPRIVAN	
External ID:	983	NDC: 00310-0300-64
	Amount:	Unit:
Strength:	200	MG
Volume:	20	ML
Therapeutic C	lass:	
Code:	28:04.92	
Description:	GENERAL ANESTHETICS MIS	CELLANEOUS\1
Code		Description
28:04.92	GENERAL ANESTHETICS	MISCELLANEOUS\1
68:36.04	THYROID AGENTS	
24:12.08	NITRATES AND NITRITES	
20:12.20	THROMBOLYTIC AGENTS\	1
08:12.16	PENICILLINS	
<b>I</b>		<b></b>
Dosage Form: Code:	VIAL	
	1	
Description:	VIAL	
Code		Description
VIAL	VIAL	
AMP	AMP	
SYR IV BTL	SYR IV BTL	
10 ML	10 ML	
10 ML	10 ML	
Charles	active	
Status:		
Source:	import	Created On: 05/06/2013 12:00
Last Edited Or	n: 05/06/2013 12:00	Last Edited By: mednet_admin
	Save	<u>C</u> ancel <u>H</u> elp

4. Click Save.

# **Delete a Medication**

#### To Delete a Medication that is not used in a Drug Library:

1. From the Medication List view, highlight the medication to be deleted.

Show active medication	S	with any	generic nar	ne or exter	nal ID 💌	A	pply Refre <u>s</u> h	Active meds:865
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
PIPERACILLIN/TAZOB	ZOSYN 3.375 GM	3773		50 ML	IV BAG	05/06/2013 12:00	active	A
PROCAINAMIDE	PROCAINAMIDE	553	1 GM	10 ML	VIAL	05/06/2013 12:00	active	
ROCAINAMIDE	PROCAINAMIDE	1873	0.5 GM	1 ML	**	05/06/2013 12:00	active	
PROCALAMINE	PROCALAMINE	1920		1000 ML	IV BTL	05/06/2013 12:00	active	
PROCHLORPERAZINE	COMPAZINE (EQ)	2514	5 MG	1 ML	**	05/06/2013 12:00	active	
ROMETHAZINE	PHENRGAN (EQ)	3224	25 MG	1 ML	**	05/06/2013 12:00	active	
PROMETHAZINE	PHENERGAN (EQ)	1143	25 MG	1 ML	AMP	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	983	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	2185	1000 MG	100 ML	VIAL	05/06/2013 12:00	active	
ROPOFOL	DIPRIVAN	1783	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
ROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3888	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3889	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
PROPRANOLOL	INDERAL (EQ)	388	1 MG	1 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE	PROTAMINE	3076	50 MG	5 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE (CV OR	PROTAMINE (CV OR	5	250 MG	25 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE SULFATE	PROTAMINE SULFATE	3931	10 MG	1 ML	**	05/06/2013 12:00	active	
PYRIDOSTIGMINE	PYRIDOSTIGMINE	2371	10 MG	2 ML	VIAL	05/06/2013 12:00	active	
PYRIDOXINE	VITAMIN B-6	3264	100 MG	1 ML	**	05/06/2013 12:00	active	

#### 2. Click Delete.

The Delete Medication screen displays.

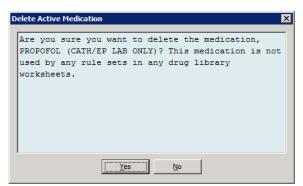
Delete Med	lication	
Generic Name:	PROPOFOL (CATH/EP LAB C	NLY)
Brand Name:	DIPRIVAN (CATH/EP LAB ON	ILY)
External ID:	3888	NDC: 00310-0300-64B
	Amount:	Unit:
Strength:	200	MG
/olume:	20	ML
Therapeutic Cla	iss:	
Code:	28:04.92	
Description:	GENERAL ANESTHETICS MI	SCELLANEOUS\1
Code		Description
28:04.92	GENERAL ANESTHETICS	MISCELLANEOUS\1
68:36.04	THYROID AGENTS	
24:12.08	NITRATES AND NITRITES	
20:12.20	THROMBOLYTIC AGENTS	3\1
08:12.16	PENICILLINS	
4		
Dosage Form:		
Code:	VIAL	
Description:	VIAL	
Code		Description
VIAL	VIAL	4
AMP	AMP	
SYR	SYR	
IV BTL	IV BTL	
10 ML	10 ML	
•		
Status:	active	
Source:	import	Created On: 05/06/2013 12:00
Last Edited On:	05/06/2013 12:00	Last Edited By: mednet_admin
	Delete	<u>C</u> ancel <u>H</u> elp

3. Click **Delete**.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

The confirmation screen indicates the medication is not used in any drug library.



4. If you still wish to delete the medication, click Yes.

#### To Delete a Medication that is used in a Drug Library:

- 1. From the Medication List view, highlight the medication to be deleted. The Delete Medication pop-up displays.
- 2. Click Delete.

The pop-up indicates the Drug Libraries that contain the medication.

Infuser Type	Drug Library
lum A+ 13.x	User Guide Plum A+
	vill need to edit or delete the rule sets before you can finalize the worksheets.

3. After reading the message, if you still wish to delete the medication, click Yes.

# **Export a Medication List**

By selecting Export, you can export a file to a location of your choice.

- \_ 🗆 🗙 Hosp Library Directory Medications Configuration Show active medications ▼ with any generic name or external ID ▼ Apply Refre<u>s</u>h Active meds:865 External ID Generic Name Brand Name Strength Volume Dosage Form Received/Updated Status PIPERACILLIN/TAZOB... ZOSYN 3.375 GM 3773 IV BAG 05/06/2013 12:00 50 ML active \* PROCAINAMIDE PROCAINAMIDE 553 1 GM 10 ML VIAL 05/06/2013 12:00 active PROCAINAMIDE PROCAINAMIDE 1873 0.5 GM 1 ML 05/06/2013 12:00 active PROCALAMINE PROCALAMINE 1920 1000 MI TV BTI 05/06/2013 12:00 active PROCHLORPERAZINE COMPAZINE (EO 2514 5 MG 1 MI 05/06/2013 12:00 active \*\* PROMETHAZINE PHENRGAN (EO) 3224 25 MG 1 ML 05/06/2013 12:00 active PHENERGAN (EQ) AMP PROMETHAZINE 05/06/2013 12:00 1143 25 MG 1 ML active VIAL DIPRIVAN 200 MC 05/06/2013 12:00 active PROPOFOL 20 M PROPOFOL DIPRIVAN 2185 1000 MG 100 MI VIAL 05/06/2013 12:00 active PROPOFOL DIPRIVAN 1783 500 MG 50 MI VIAL 05/06/2013 12:00 active PROPOFOL (CATH/EP ... DIPRIVAN (CATH/EP L.. 20 ML 3888 200 MG VIAL 05/06/2013 12:00 active PROPOFOL (CATH/EP 3889 DIPRIVAN (CATH/EP L. 500 MG 50 ML VIAL 05/06/2013 12:00 active PROPRANOLOL INDERAL (EQ) 388 1 MG 1 M VIAL 05/06/2013 12:00 active VIAL PROTAMINE PROTAMINE 3076 50 MG 5 M 05/06/2013 12:00 active PROTAMINE (CV OR . PROTAMINE (CV OR 250 MG 25 M VIAL 05/06/2013 12:00 active PROTAMINE SULFATE PROTAMINE SULFATE 3931 10 MG 1 MI 05/06/2013 12:00 active PYRIDOSTIGMINE PYRIDOSTIGMINE 2371 10 MG 2 ML VIAL 05/06/2013 12:00 active PYRIDOXINE VITAMIN B-6 3264 100 MG 1 ML 05/06/2013 12:00 active Ŧ <u>A</u>dd Edit <u>R</u>eview Preferences Export Pri<u>n</u>t Save to File Log Ou<u>t</u> Delete Import D Help
- 1. From the Medication List view, select Export.

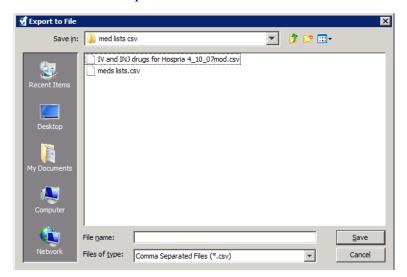
The Select Export File Content screen displays.

Select Export File Contents
All Medication Fields
Only External ID and Generic Name (used for bulk updates to these fields only)
QK <u>Cancel</u> <u>H</u> elp

- 2. Select All Medication Fields or Only External ID and Generic Names.
- **Note:** Selecting to export only the external ID and Generic Names allows you to edit those two fields and then re-import them into the Medication List.
  - 3. Click **OK**. The Export to File screen displays.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

4. Select a location for the export of the Medication List.



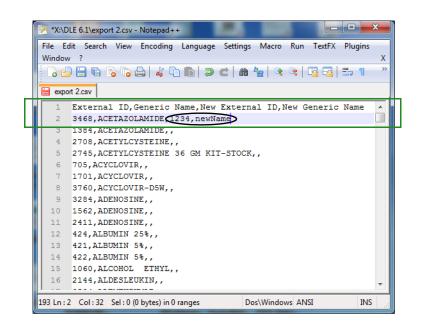
- 5. Enter a file name.
- **Note:** The medication list can only be exported in .csv (comma separated value) and XML formats. If you selected to export only the External ID and Generic Name you must export in .csv format.
  - 6. Click Save.
- **Note:** If you have the Hospira MedNet Meds Formulary Interface, the export function does not include any pending medications in the exported file.

#### Editing an Exported External ID and Generic Name File

1. Select the .csv file you have exported and right-click to access Notepad or similar program.

LE 6	5.1 ▶	arch DLE 6.1	Q
		:≡ ▼	
*	Name	Date modified	Туре
	🖳 export 2	7/23/2014 11:41 AM	Microsof
	🔁 Install Hospira MedNet™ Meds 6.1	6/17/2014 11:41 AM	Adobe A
	🖼 Medication list	5/8/2014 4:49 PM	Microsof
-	Medication list	5/8/2014 4:49 PM	HTML D
3/20	014 11:41 AM Date created: 7/23/2014 11:	41 AM	
5 KB	Offline availability: Not available		

2. Right-click on the name of the file and using Notepad or similar program, edit by adding a new External ID, and new Generic Name between commas.



3. From the File menu, select Save.

You can now import this edited file into the Medication List.

### **Medication List Report**

- 1. You can select to either:
  - a. Save the report in .html format to a selected location by clicking Save to File,

or

b. Print a report of the data currently being displayed in the Medication List view by clicking the **Print** button.

how active medication	S	with any	generic nar	ne or exter	nal ID 🔻	A	pply Refre <u>s</u> h	Active meds:86
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status	
PIPERACILLIN/TAZOB	ZOSYN 3.375 GM	3773		50 ML	IV BAG	05/06/2013 12:00	active	_
ROCAINAMIDE	PROCAINAMIDE	553	1 GM	10 ML		05/06/2013 12:00	active	-
ROCAINAMIDE	PROCAINAMIDE	1873	0.5 GM	1 ML	**	05/06/2013 12:00	active	
ROCALAMINE	PROCALAMINE	1920		1000 ML	IV BTL	05/06/2013 12:00	active	
ROCHLORPERAZINE	COMPAZINE (EQ)	2514	5 MG	1 ML	**	05/06/2013 12:00	active	
ROMETHAZINE	PHENRGAN (EQ)	3224	25 MG	1 ML	**	05/06/2013 12:00	active	
PROMETHAZINE	PHENERGAN (EQ)	1143	25 MG	1 ML	AMP	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	983	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
ROPOFOL	DIPRIVAN	2185	1000 MG	100 ML	VIAL	05/06/2013 12:00	active	
PROPOFOL	DIPRIVAN	1783	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
ROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3888	200 MG	20 ML	VIAL	05/06/2013 12:00	active	
ROPOFOL (CATH/EP	DIPRIVAN (CATH/EP L	3889	500 MG	50 ML	VIAL	05/06/2013 12:00	active	
ROPRANOLOL	INDERAL (EQ)	388	1 MG	1 ML	VIAL	05/06/2013 12:00	active	
ROTAMINE	PROTAMINE	3076	50 MG	5 ML	VIAL	05/06/2013 12:00	active	
ROTAMINE (CV OR	PROTAMINE (CV OR	5	250 MG	25 ML	VIAL	05/06/2013 12:00	active	
PROTAMINE SULFATE	PROTAMINE SULFATE	3931	10 MG	1 ML	**	05/06/2013 12:00	active	
YRIDOSTIGMINE	PYRIDOSTIGMINE	2371	10 MG	2 ML	VIAL	05/06/2013 12:00	active	
PYRIDOXINE	VITAMIN B-6	3264	100 MG	1 ML	**	05/06/2013 12:00	active	

2. The appropriate window displays:

Save to File		X
Look in	: 📃 Desktop 🍼 🗇 😥 🖽 •	
Recent Items Desktop My Documents Computer	□ Loraries         □ Computer         ● Network         ■ 6.0 MMU DB Install         □ L-01.00.00.043-CD1         □ med lists csv         ■ MedNet source 5.8	
	File name: Save	
Network	Files of type: HTML Files (*.html) Cancel	

Make your selections.

3. Click Save or Print.

Seneral Page Setup Appearance	2
Print Service	
Name: Microsoft XPS Document Writer	▼ Properties,
Status: Accepting jobs	
Type:	
Info:	🏳 Print To Eile
Print Range	Copies
④ Aļi	Number <u>o</u> f copies:
C Pages 1 To 1	Collate
	Print Cancel

# **Chapter 5: The Library Directory**

# Overview

A drug library is a collection of medication names, rule sets, Clinical Care Areas (CCAs), and infuser settings. Hospira MedNet Meds software stores drug libraries in three ways:

- Worksheets
- Active Libraries
- Archived Libraries

A *Worksheet* is a library that has not yet been approved (finalized) for transfer to infusers. You can store multiple Worksheets in the database; however, you may only edit one Worksheet at a time.

An *Active library* is a Worksheet that has been finalized. (To learn more about finalization, see Finalizing Worksheets on page 57.) Once a Worksheet has been finalized, no more changes can be made to it. Only an Active library can be transferred to infusers. Only one Active library per infuser type can exist at a time in the Hospira MedNet Meds software database.

An *Archived library* is a previously Active library that has been deactivated for transfer to infusers. Archived libraries can be copied but cannot be edited or downloaded to infusers.

Unless otherwise specified (for example, "Active library"), the term *library* used alone refers to Worksheets and to both Active and Archived libraries.

Finalizing is the process of converting a Worksheet into an Active library.

When adding a Worksheet, you need to set up CCA names, infuser settings, and medication entries in order to create a complete library.

You can create Worksheets and libraries in the following ways:

- By creating new, blank Worksheets
- By copying existing libraries, Archived libraries, or Worksheets
- By importing special files that Hospira MedNet Meds software is able to convert into a Worksheet

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

The Library Directory view lists the active library for each infuser type, all Worksheet libraries, and all archived libraries in the database. The following information is displayed in the Library Directory view:

Library Directory			
Field	Result		
Drug Library ID	A field automatically assigned by the system when a Worksheet is created		
Infuser Type	Licensed infusers		
Drug Library <sup>1</sup>	The name you entered when you created the library		
Library Status	Categorized as one of the following:		
	<ul><li>Worksheet</li><li>Active</li><li>Archive</li></ul>		
Date Modified	The date and time the drug library was last modified		
Date Finalized <sup>2</sup>	The date and time the drug library was finalized		
Infuser Library Version <sup>3</sup>	The finalization date, software version, and Drug Library ID that was assigned to the library when it was created		
Library Notes	Additional information about a drug library entered by the user		
<ul> <li><sup>1</sup> The library name cannot be edited after the library is created.</li> <li><sup>2</sup> This field is blank if the drug library is a Worksheet.</li> <li><sup>3</sup> The finalization date is represented in Greenwich Mean Time (GMT), not local time.</li> </ul>			

# **Library Directory Conventions**

The Library Directory uses the following conventions:

- You may sort all columns in the Library Directory view in either ascending or descending order by clicking on the column heading.
- You may use the vertical and horizontal scroll bar(s) to scroll to an entry.
- When you highlight an entry on the Library Directory view, buttons or features that are not available appear as "grayed" or disabled.

## **Step-by-Step Procedures**

The following section provides step-by-step procedures that enable you to manage the Library Directory. In this section you will learn how to do the following:

- Navigate to the Library Directory list view
- Create, edit, and add a note to a Worksheet
- Delete Worksheets and archived drug libraries
- View a drug library
- Copy a drug library
- Import a drug library
- Export a drug library

#### To navigate to the Library Directory list view, do the following:

- 1. Double-click the Hospira MedNet Meds software icon on the Windows desktop.
- 2. Enter your User ID and Password.
- **Note:** In order to log in to the application and perform the procedures in this chapter, you must have the appropriate access privileges.
  - 3. Click Log in.

The Library Directory view appears.

M Hospira MedNet™ Meds™							
Library Directory Medications Configuration							
	<u>E</u> dit <u>D</u>	elete <u>V</u> iew Co <u>p</u> y		Notes		Export Impor	t Log Ou <u>t</u> <u>H</u> elp
Drug Library ID	Infuser Type	Drug Library	Library Status	Date Modified	Date Finalized	Infuser Library Version	Library Notes
		~~~	*~~··~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

**Note:** You will not see any entries in the list until you create a Worksheet or import a library.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### **Create a Worksheet**

1. On the Library Directory view, click Create.

Library Directory Medications Configuration							
Cre <u>a</u> te .ibraries	<u>E</u> dit <u>D</u> e	elete <u>Vi</u> ew Co <u>p</u> y		Notes		Export Impor	t Log Ou <u>t</u> <u>H</u> elp
Drug Library ID	Infuser Type	Drug Library	Library Status	Date Modified	Date Finalized	Infuser Library Version	Library Notes

The Create Worksheet screen appears.

Create Worksheet	
Infuser Type: Select Drug Library: Notes	
<u>Ok</u> (	<u>Cancel</u> <u>Help</u>

- 2. From the Infuser Type drop-down list, select an infuser type.
- 3. In the **Drug Library** field, type a name for the library.
- 4. Enter a Note, if desired, for the library.
- **Note:** Your note may contain information such as "For P & T Review" or other helpful hints to keep you organized as you build the library.
  - 5. Click OK.

30

The Create Worksheet screen closes and your entry appears in the Library Directory view.

#### **Edit a Worksheet**

- 1. On the Library Directory view, highlight a Worksheet.
- 2. Click Edit.
- 3. Make desired changes.
- 4. Click Close.

Your modification is saved and the Library Directory view displays.

#### Note: Additional information on editing worksheets can be found in the infuser-specific chapters: Chapter 9: Plum A+, and Plum 360 Medication Entries, on page 103 Chapter 10: LifeCare PCA Medication Entries, on page 165 Chapter 12: SapphirePlus Medication Entries, on page 197

For LifeCare PCA only:

If you attempt to edit a drug library that contains a protocol which is referring to a medication that has been deleted from the medication list, the following pop-up screen will display.

Ŀ	Confirmatio	to Delete Protocols							×
	must be de.	Name for the followin Leted. Se to confirm. If you w		-				-	
	in View mod			, - , - ,	,,				
	Protocol Number	Protocol Name	Container Concentration	Delivery Mode	PCA Dose	Lockout Interval (min)	Continuous Rate	Dose Limit	Time Interval
	1	Protocol 1	10 mg / 1 mL	PCA	1 mg	1		2 mg	4-hours
				<u>D</u> elete <u>C</u> ancel	Help				

1. Click Delete.

The protocol will be removed and you will be able to edit the Worksheet.

Note: In order to open the Worksheet, you must first delete the protocol.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Delete a Worksheet or Archived Drug Library**

You may delete a Worksheet or Archived drug library from the Library Directory. When you delete a library, it is permanently removed from the system.

#### To delete a Worksheet or Archived drug library, do the following:

- 1. On the Library Directory view, highlight a Worksheet or Archived drug library.
- 2. Click Delete.

The Delete Library screen opens.

**Caution:** By deleting a library, you remove it from the system permanently. You may want to ensure that your system has recently been backed up before deleting a drug library.

Delete Library
Infuser Type: Symbiq 3.1
Drug Library: User Guide Symbiq
Notes
<u>QK</u> <u>Cancel</u> <u>H</u> elp

3. Click OK.

The Worksheet or library is permanently deleted and the Library Directory view appears.

### View a Drug Library

- 1. On the Library Directory view, highlight a drug library.
- 2. Click View.

The Drug Library Management view appears.

Note: You cannot make changes when viewing a library.

ug Library Manager	nent il Reports I										
Finalize	, nopor o l									Close	Help
arget List:											
Select a CCA	<b>•</b>	<u>A</u> dd <u>E</u> dit	<u>V</u> iew <u>R</u> emove	2		Arrange C	CA List			Medication Entries:	
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Dosing Unit	Lower Hard Limit	Lower Soft Limit	Upper Soft Limit	Upper Hard Limit		
											2
				al							
				4							Þ
ource List: Mas	ter Drug Form	ılary <del></del>		4							Þ
ource List: Mas			View Delete	1		Conv to Tar	net CCA				F
		ulary Agd Edi <u>t</u>	View Delete			Copy to Tar	get CCA				Þ
			View Dejete Concentration (or Container Volume)	Rule Set	Dosing Unit	Copy to Tar	get CCA Lower Soft Limit	Upper Soft Limit	Upper Hard Limit		
Master Drug Formu Generic Name CYCLOVIR	External ID	Add Edit Displayed Name ACYCLOVIR	Concentration	Rule Set	Unit mcg/kg/hr	Lower Hard Limit	Lower				
Master Drug Formu Generic Name ICYCLOVIR IEFAZOLIN	External ID 1701 1433	Add Edit Displayed Name ACYCLOVIR CEFAZOLIN	Concentration (or Container Volume) 500 mg / 10 mL mg /mL	Rule Set	Unit mcg/kg/hr mL/hr	Lower Hard Limit	Lower				
Generic Name CYCLOVIR EFAZOLIN OBUTAMINE	External ID 1701 1433 12	Agd Edit Displayed Name ACYCLOVIR CEFAZOLIN DOBUTAMINE	Concentration (or Container Volume) 500 mg / 10 mL mg /mL 250 mg / 20 mL	Rule Set	Unit mcg/kg/hr mL/hr mL/hr	Lower Hard Limit	Lower Soft Limit	Soft Limit	Hard Limit		
Generic Name CYCLOVIR EFAZOLIN OBUTAMINE OXYCYCLINE	External ID 1701 1433 12 1549	Add Edit Displayed Name ACYCLOVIR CEFAZOLIN DOBUTAMINE DOXYCYCLINE	Concentration (or Container Volume) 500 mg / 10 mL mg /mL	Rule Set Full Full Full Limited	Unit mcg/kg/hr mL/hr	Lower Hard Limit	Lower				•
Generic Name Generic Name ICYCLOVIR JEFAZOLIN JOBUTAMINE IORYCYCLINE IORPHINE	External ID 1701 1433 12 1549 2738	Add Edit Displayed Name ACYCLOVIR CEFAZOLIN DOBUTAMINE DOXYCYCLINE MORPHINE	Concentration (or Container Volume) 500 mg / 10 mL mg /mL 250 mg / 20 mL 5 mL	Rule Set Full Full Limited Label Only	Unit mcg/kg/hr mL/hr mL/hr mL/hr	Lower Hard Limit	Lower Soft Limit	Soft Limit	Hard Limit		
Generic Name Generic Name ICYCLOVIR JEFAZOLIN JOOBUTAMINE JOXYCYCLINE JORPHINE JORPHINE PCA	External ID 1701 1433 12 1549 2738 594	Add Edit Displayed Name ACYCLOVIR CEFAZOLIN DOBUTAMINE DOXYCYCLINE MORPHINE PCA	Concentration (or Container Volume) 500 mg / 10 mL mg /mL 250 mg / 20 mL	Rule Set Full Full Limited Label Only Full	Unit mcg/kg/hr mL/hr mL/hr	Lower Hard Limit	Lower Soft Limit	Soft Limit	Hard Limit	Medication Entries:	
daster Drug Formu Generic Name CYCLOVIR EFAZOLIN OBUTAMINE OXYCYCLINE ORPHINE	External ID 1701 1433 12 1549 2738	Add Edit Displayed Name ACYCLOVIR CEFAZOLIN DOBUTAMINE DOXYCYCLINE MORPHINE	Concentration (or Container Volume) 500 mg / 10 mL mg /mL 250 mg / 20 mL 5 mL	Rule Set Full Full Limited Label Only	Unit mcg/kg/hr mL/hr mL/hr mL/hr	Lower Hard Limit	Lower Soft Limit	Soft Limit	Hard Limit	Medication Entries:	►

Helpful Hint: If you hover the mouse pointer over any medication entry in the Master Drug Formulary, a "tool tip" displays the medication's generic name and concentration as well as the CCAs to which it has been assigned (see below). The tool tip will disappear after 5 seconds.

Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Dosing Unit
ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	Full	mcg/kg/hr
CEFAZOLIN	1433	CEFAZOLIN	mg /mL	Full	mL/hr
DOBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL	Full	mL/hr
MORPHINE	2738	MORPHINE		Label Only	
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	Full	mg/hr
	577	VANCOMYCIN		Label Only	
VANCOMYCIN	5//	Bivaligudin	250 mg / 50 ml		ma ka hr

3. Click Close to return to the Library Directory view.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Copy an Archived Library, Active Library, or Worksheet

In order to facilitate creating or updating a drug library, you may copy Active or Archived drug libraries as well as Worksheets. When you copy a drug library, all medication rule sets, infuser settings, and CCA settings are included. The copied drug library appears as a new entry on the Library Directory view.

- 1. On the Library Directory view, highlight the desired drug library entry.
- 2. Click Copy.

The Copy Library screen opens.

🗹 Copy Library 🗙
Copy From:
Infuser Type: Plum A+ 13.x
Drug Library: User Guide Plum A+
Сору То:
Infuser Type: Select
Drug Library:
[Notes
QK Cancel Help

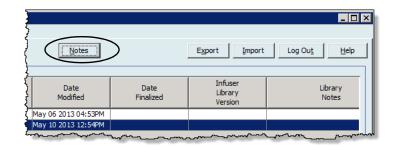
- 3. In the **Drug Library** field, type the name of the new drug library as you wish it to appear on the Library Directory view.
- **Note:** You may enter information into the **Notes** field, if needed.
  - 4. Click OK.

Your drug library is copied. The new Worksheet appears on the Library Directory view.

Note: Copying is allowed only between libraries for the same infuser type.

### Add or Edit Notes to a Worksheet.

- 1. On the Library Directory view, highlight a Worksheet.
- 2. Click Notes.



The Notes screen opens.

Note: The Infuser Type and Drug Library fields cannot be edited.

Notes X
Infuser Type: Plum A+ 13.x
Drug Library: User Guide Plum A+
Notes
QK <u>C</u> ancel <u>H</u> elp

- 3. Type the note or edit text in the Notes field.
- 4. Click **OK**. The note is saved and appears in the **Library Notes** field of the Library Directory.
- Note: The Notes field cannot be modified after a drug library is finalized.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### Export an Archived Library, Active Library, or Worksheet

Note: Only users with the appropriate login privileges are able to export files.

You can export the rule sets from Worksheets, Archived libraries, and Active libraries as XML (Extensible Markup Language) files.

Note: If the exported XML file is modified, it cannot be re-imported into Hospira MedNet Meds.

You can also export a Worksheet, Archived library, or Active library as a Comma Separated (CSV) file. CSV filenames end in ".csv." The file can be used to view rule sets in Microsoft Excel.

Note: Comma Separated files cannot be re-imported into Hospira MedNet Meds.

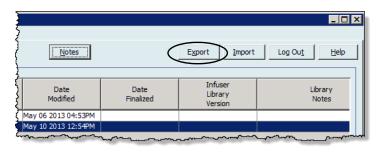
When exporting a Worksheet, Archived library, or Active library, only medication entries that have been assigned to CCAs will be exported; medication entries that are listed only in the Master Drug Formulary are not exported.

The Master Infuser and CCA Settings are included in exported XML files. When a LifeCare PCA Worksheet is exported in the CSV format, the bar code values will appear to begin with a single quote (') character if the file is viewed in Microsoft Excel.

**Note:** Protocols are not exported with an XML file for a LifeCare PCA Drug Library. Protocols must be manually re-entered after a PCA Drug Library is imported back into Hospira MedNet Meds.

You may export a drug library to an external location on your network or hard drive.

- 1. On the Library Directory view, highlight the desired drug library.
- 2. Click Export.



The Export Library screen opens.

🗹 Export Library	×
Export To:	
File Name:	Browse
Export From:	
Infuser Type: Plum A+ 13.x	
Drug Library: User Guide Plum A+	
Notes	
QK <u>Cancel</u> <u>H</u> elp	

3. Click Browse.

🔮 Open					×
Look in	: 🚺 Hospira M	edNet Meds 6.0	-	🤌 📂 🖽	
Recent Items Desktop My Documents	dependen	lospira MedNet(TM) Meds(TM) 6.0 Data			
	File name:				Select
Network	Files of type:	XML Files (*.xml) XML Files (*.xml)		<b>•</b>	Cancel
		Comma Separated Files (*.csv)			

- 4. In the File Name field, type in a path and file name to use for the exported file.
- 5. Select either XML Files or Comma Separated Files (CSV) from the drop-down list.
- 6. Click OK.

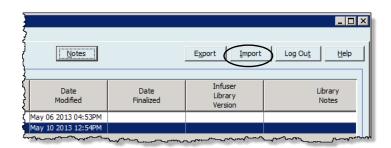
The Export Library screen closes. The drug library is exported to the desired location.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Import a Drug Library

You may import a drug library from an XML file created by Hospira MedNet Meds. When you import a drug library, it becomes a Worksheet. The software fully validates the data ranges, precision, and relationships before adding imported data to the database.

1. From the Library Directory view, click Import.



The Import Library screen opens.

Import Library	x
Import From:	
Infuser Type:	LifeCare PCA 5.x 💌
File Name:	Browse
Import To:	
Infuser Type:	LifeCare PCA 5.x 💌
Drug Library:	
Notes	
	OK Cancel Help

- 2. In the **Import From** screen area, select the **Infuser Type** that corresponds to the library you are importing.
- 3. In the **File Name:** field, type in the path and file name of the drug library you wish to import.

Helpful Hint: You may search for the file name and path by clicking Browse and navigating to the desired file.

- 4. In the **Import To** screen area, select the **Infuser Type** that corresponds to the library you are importing.
- 5. In the **Drug Library** field, type in a name for the imported library, as you would like it to appear on the Library Directory view.

Note: You may enter information into the Notes field, if needed.

6. Click OK.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

The Import Library screen closes and the newly imported Worksheet appears on the Library Directory view.

**Note:** A Drug Library that contains one or more Medication Entries referring to a medication which is not in the Medication List will be imported. In order for the library to be finalized, all medication entries will need to be assigned to a medication in the Medication List.

If the file you are attempting to import contains unusable data, the software displays an error message and does not import the file.

WARNING: If you make changes to an exported XML file, the file cannot be imported.

### Notes:

# **Chapter 6: Drug Library Management**

## Overview

The Drug Library Management view allows you to create, edit, and delete safety limits for medication entries used by the infusers. The safety limits established are then incorporated directly by the rule sets used in the drug library.

The Drug Library Management view displays when you open a Worksheet or an Active or Archived library. This view consists of two panes that display the target and source medication lists associated with individual CCAs and the Master Drug Formulary. As a CCA is created, medications that have been assigned to it will be displayed in the Target List pane at the top of the view. The complete list of medications available in the Master Drug Formulary is displayed in the Source List pane at the bottom of the view. The Master Drug Formulary is the comprehensive list of medications and rule sets defined for use in a Drug Library.

The drop-down list in each pane displays the CCAs that have been defined for the library. The active functions (buttons) available in the Drug Library Management view will vary depending on the type of library you have opened and whether or not a CCA is selected. Functions that are not available from this view will be grayed out.

🗹 Hospira MedNe	t™ Meds™ - Use	r Guide Library									_ 🗆 🗙
Drug Library Manage	ement Reports	CCA Setup   Master I	nfuser Setup								
Einalize										⊆lose	Help
											<u> </u>
Target List:											
Select a CCA	•	<u>A</u> dd <u>E</u> dit	View Remove			Arrange	CCA List			Medication Entries:	
Generic Name	External ID	<ul> <li>Displayed Name</li> </ul>	Concentration (or Container Volume)	Rule Set	Clinical Use	Dosing Unit	Lower Hard Limit	Lower Soft Limit	Upper Soft Limit	Upper Hard Limit	
										<u> </u>	
											-
,				•							▶
<b>∣</b> Source List: Ma	ster Drug Formı	ılary ———									
Master Drug Forn	nulary 🔽	Add Edit	Vie <u>w</u> Delete	1		Copy to Tar	raet CCA			Medication Entries:	19
Inductor bridgit on				1		0027 00 101	gociacin			1 Iodicación Enchosi	
Concerie Manue	External ID	Disale used Name	Concentration	Rule Set	Clinical Use	Dosing	Lower	Lower	Upper	Upper	
Generic Name		Displayed Name	(or Container Volume)	Rule Set	Clinical Use	Unit	Hard Limit	Soft Limit	Soft Limit	Hard Limit	
Fentanyl	EXT_ID_046	Fentanyl	2.5 mcg / 250 mL	Full	ONCOLOGY	mcg/hr				1	
Hydromorphone	EXT_ID_054	Hydromorphone		Label Only		mL/hr					
Morphine	EXT_ID_072	Morphine		Label Only		mL/hr					
Morphine	EXT_ID_072	Morphine PCA	30 mg / 30 mL	Full	NOT SPECI	mg/hr		1			
No Drug Selected		No Drug Selected		Label Only		mL/hr					
		Duran Gal	100 mL	Limited	ANESTHESIA	mL/kg/min			51	100	
Propofol	EXT_ID_089	Propofol	100 mc								
	EXT_ID_089 EXT_ID_097	Proporol Vancomycin		Label Only		mL/hr					<b>_</b>
Propofol				Label Only		mL/hr					- -
Propofol						mL/hr Worksheet Mo			1 Mode: E		•

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

**Note:** The Master Drug Formulary (MDF) contains a list of all medications available for use by the CCAs in the library. The MDF list functions as a "parent" to the medication entries in the Target List.

To create and complete a drug library suitable for transfer to an infuser, you will need to:

• Define the desired CCAs.

See: Chapter 8: Setting Up CCAs, on page 85

• Create the medication entries.

See: Chapter 9: Plum A+, and Plum 360 Medication Entries, on page 103

See: Chapter 10: LifeCare PCA Medication Entries, on page 165

See: Chapter 12: SapphirePlus Medication Entries, on page 197

- Arrange the medication list in the desired order.
  - See: Changing the Display Order of Medication Entries, on page 46
- Create protocols for the LifeCare PCA infuser Optional.

See: Chapter 11: Setting Up LifeCare PCA Protocols, on page 185

• Define the Master Infuser setting.

See: Chapter 13: Master Infuser Setup, on page 225

PLEASE NOTE: SapphirePlus<sup>TM</sup> is a trademark of Q Core Medical Ltd.

## **Drug Library Management Conventions**

The Drug Library Management view uses the following conventions:

- The fields in the Target List and Source List panes are identical.
- The list grid includes a moveable split bar located after the fourth column. The remaining columns scroll under the first three.
- The Target List and Source List panes include a read-only field that displays the total number of medications in a selected list.
- All columns are re-sizeable and may be sorted in ascending or descending order by clicking on the column header.
- The view includes a read-only bottom status bar that displays the Library Name, Infuser, Status, Modified [date], Mode, and User.
- Commas (,) double quotes (") and angle brackets (<>) are considered invalid characters and cannot be used in a name.

## **Managing Drug Libraries**

The following procedures enable you to manage drug libraries for each infuser. The data that you see in the target and source panes will be different for each infuser and is consistent with the medication entry for the infuser.

#### **Target List Procedures**

- Viewing Medication Entries in a CCA
- Removing Medication Entries from a CCA
- Changing the Display Order of Medication Entries

#### **Source List Procedures**

- Viewing Medication Entries in the Master Drug Formulary
- Copying Medication Entries from One CCA to Another
- Deleting Medication Entries from the Master Drug Formulary

#### **General Procedures**

- Finalizing Worksheets
- Closing Worksheets
- **Caution:** In the case of an auto-program, if the Hospira MedNet Software is unable to locate a matching rule set, the order will be sent to the infuser under "No Drug Selected" (infuser- and CCA-dependent) and the order data will be transmitted to the infuser. No Rule Set Limits will be available for this order. If the order is a partial auto-program, the remaining parameters will be manually programmed. See the specific infuser operating manual for additional information.

### **Viewing Medication Entries in a CCA**

- 1. From the Library Directory view, highlight a Worksheet.
- 2. Click Edit or View.

The Drug Library Management view opens.

3. From the Target List, select the CCA containing the medication entry you want to view.

	🛃 Hospira MedNet	<sup>™</sup> Meds™ - Plur	n 15 User Guide					
	Drug Library Managen	nent Reports	CCA Setup 🛛 Master Ir	nfuser Setup				
3	Einalize							
	r Target List: 5 West							
	5 West	<b>v</b>	<u>A</u> dd <u>E</u> dit	<u>V</u> iew <u>R</u> emove				
	Generic Name	External ID	A Displayed Name	Concentration (or Container Volume)				
	Epinephrine	EXT_ID_039	Epinephrine	50 mg / 250 mL				
	Furosemide	EXT_ID_050	Furosemide	50 mg / 250 mL 400 mcg / 100 mL 25000 Units / 250 mL				
4	Heparin	EXT_ID_053	Heparin	25000 Units / 250 mL				
	Insulin	EXT_ID_056	Insulin	250 Units / 250 mL				
	Morphine	EXT_ID_072	Morphine					
	No Drug Selected		No Drug Selected					
	Vancomycin _	EXT ID 097	Vancomycin					

4. Select the medication entry.

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- 5. From the Target List, click View.
- 6. When you are finished viewing the medication entry, click Close.

Target List: View Rule Set			×
Generic Name	(External ID) (Strength / Volume)	{Dosage Form}:	
			Select
Displayed Name:	Therapeutic Class:	Clas	s ID:
Heparin			
Summary: Heparin 25000 un	its / 250 mL Dosed in units/hr		
Rule Sets:			
Full			
Concentration			
Medication Amount: Medication Unit: 25000 units	Diluent Amount: mL		
J=			
Dose Rate Limits			
Dosing Unit: LHL:	LSL:	USL:	UHL:
units/hr 100	500 100	100	15000
	<u>Close</u> <u>H</u> elp		

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### **Removing Medication Entries from a CCA**

- **Note:** Only users with the appropriate login privileges are able to add and remove medication entries from CCAs.
  - 1. From the Library Directory view, open a Worksheet for editing.
  - 2. From the Target List, select the CCA containing the medication entry you want to remove.

	V	Hospira MedNet™	Meds™ - Use	r Guide Plum A+		1
	D	rug Library Manageme	nt Reports (	CCA Setup   Master Ir	nfuser Setup	1
2		<u>F</u> inalize				}
	Г	Target List: 5 West	t			4
		5 West	<b>T</b>	<u>A</u> dd <u>E</u> dit	<u>V</u> iew <u>R</u> emove	$\mathbb{D}$
		Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	
		No Drug Selected		No Drug Selected		Læ
3				Furosemide	400 mg / 100 mL	Ft
				Heparin	25000 units / 250 mL	Fy
				Insulin	250 units / 250 mL	Fi,
				0.9% Normal Saline		La
				Bivalirudin	250 mg / 50 mL	स्ताक्वाद्धाः
				Epinephrine	50 mg / 250 mL	FC
				Insulin	1 units / 1 mL	Fu

- 3. Select the medication entry to remove.
- 4. From the Target List, click Remove.
- 5. At Confirm Remove from CCA, click Remove.

Confirm Remove from CCA	×
Remove from: 5 West	
Medication Entries	
Furosemide 400 mg / 100 mL	
Remove Cancel Help	

**Note:** You can delete one medication at a time from the Master Drug Formulary or you can delete several at a time by highlighting them, using the shift key or control key, and deleting them.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Changing the Display Order of Medication Entries**

#### (not applicable to SapphirePlus)

- Note: Only users with the appropriate login privileges are able to change the display order of medication entries.
- Important: The order in which the medications appear in the target list panel may not be the order in which the medications will appear on the infuser.

#### To change or view the order in which medication entries are displayed:

- 1. From the Target List, select a CCA.
- 2. Click Arrange CCA List.

) rug Library Managen	Pent Deporte Lu	CCA Setup   Master II	ofucer Setup				
rag cibrary managon	ione   Reports   i	cow perch Linaster II	Indiser Decap				
<u>F</u> inalize							
Target List: 5 We	st —						
5 West	-	Add Edit	View Remove		$\mathcal{C}$	Arrange	CCA List
,							
Generic Name	External ID	Disalaurad Nama	Concentration	Rule Set	Clinical Use	Dosing	Lower
Generic Name	External ID	<ul> <li>Displayed Name</li> </ul>	(or Container Volume)	Rule Sec	Clinical Use	Unit	Hard Lim
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full	NOT SPECI	mcg/kg/hr	1
Cefazolin	EXT_ID_018	Cefazolin	mg /mL	Full	NOT SPECI	mL/hr	5
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full	CARDIAC	mL/hr	1
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full	NOT SPECI	mL/hr	1
DOPamine	EXT_ID_037	DOPamine	mL	Limited	NOT SPECI	mL/hr	10
Epinephrine	EXT_ID_039	Epinephrine	50 mg / 250 mL	Full	NOT SPECI	mcg/min	
Hydromorphone	EXT_ID_054	Hydromorphone		Label Only		mL/hr	
Insulin	EXT_ID_056	Insulin	250 Units / 250 mL	Full	NOT SPECI	units/hr	0.25
Manabian	EXT ID 072-	Morphine ~~~	_	الملحلة		will/hr	

3. Select the medication entry you want to move.

Helpful Hint: You can select multiple medications to move by highlighting them.

4. Click Move Up or Move Down to position the selected medication entries.

Upper Upper
oft Limit Hard Limit
15000

- 5. Repeat for all medication entries as needed.
- 6. Click Save.

Medication entries newly added to a CCA are placed at the bottom of the assigned medications list.

Hospira MedNet Meds Software User Guide Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Sorting the medication entries within a CCA:

- 1. From the Library Directory view, open a Worksheet for editing.
- 2. On the Drug Library Management view, select a CCA from the Target List.
- 3. Click Arrange CCA List.

rug Library Managen	ent Reports	CCA Setup   Master Ir	nfuser Setup				
Einalize							
Target List: 5 We	et						
Target List. 5 we	51						
5 West	-	Add Edit	View <u>R</u> emove			Arrange	CCA List ㅣ
Generic Name	External ID	A Displayed Name	Concentration	Rule Set	Clinical Use	Dosing	Lower
Generic Marie	External ID	- Displayed Marile	(or Container Volume)	Kule Det	Clinical Use	Unit	Hard Lim
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full	NOT SPECI	mcg/kg/hr	1
Cefazolin	EXT_ID_018	Cefazolin	mg/mL	Full	NOT SPECI	mL/hr	5
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full	CARDIAC	mL/hr	1
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full	NOT SPECI	mL/hr	1
DOPamine	EXT_ID_037	DOPamine	mL	Limited	NOT SPECI	mL/hr	10
Epinephrine	EXT_ID_039	Epinephrine	50 mg / 250 mL	Full	NOT SPECI	mcg/min	
Hydromorphone	EXT_ID_054	Hydromorphone		Label Only		mL/hr	
Insulin	EXT ID 056	Insulin	250 Units / 250 mL	Full	NOT SPECI	units/hr	0.25
Maration	EXT ID 072~			Japatrak		will/hr	

4. On the pop-up that appears, from the **Sort By** list, select the primary sorting criteria from the list. The selection will vary according to the infuser.

ব	d Arrange CCA Medication Entry List									
	CCA: !	5 West				Ì				
So	ort by:	None	•	Then b	y: None	Sor <u>t</u> by:				
-	CCA Me	None				5				
		Generic Name								
	<i>c</i> .	External ID		rnal ID	Disalay and Massa	Concentration				
	Ge	Displayed Name		mai ID	Displayed Name	(or Container Volum				
	No Dru	Rule Set			No Drug Selected	5				
	Furose	Dosing Unit		_050	Furosemide	400 mg /mL 🕴				
	Hepari	Lower Hard Limit		_053	Heparin	25000 units / 250 mL 🕽				
	Insulin	Lower Soft Limit	Ŧ	_056	Insulin	250 units / 100 mL				
	Morphi		[_IC	072	Morphine					

- 5. From the **Then By** list, select the secondary sorting criteria, if desired.
- 6. Click Sort by.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

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For the Plum 360, the **Sort By:** button gives you the option to sort by the Displayed Name in either ascending or descending order. Medication entries with the same Displayed Name will remain together. (See the Hospira MedNet Software Device Compatibility Matrix to determine the availability of the Plum version(s). The matrix is available through your Advanced Knowledge Center.)

	🗹 Arrange CCA Med	lication Entry L	ist			
	CCA: 5 West					ļ
<b>&gt;</b>	Sort by: 👻					Į
	Displayed N	ame in ascending	order			{
	Z Displayed N	ame in descendin	g order	ed Name	Concentration (or Container Volume)	Rule Set
	Last saved o	order	[		500 mcg / 10 mL	Full 2
	Cerazoiin	EX1_10_010	Cerazoiin		mg /mL	Full
	DOBUTamine	EXT_ID_035	DOBUTam	nine	250 mcg / 20 mL	Full 🗧
	No Drug Selected		No Drug S	selected		Label Only
Will stay grouped	DOPamine	EXT_ID_037	DOPamine	9	200 mg / 5 mL	Full
	DOPamine	EXT_ID_037	DOPamine		mL	Limited
	Hydromorphone	EXT_ID_054	Hydromor	phone		Label Only
Will stay grouped	Morphine	EXT_ID_072	Morphine			Label Only
	Morphine	EXT_ID_072	Morphine	PCA	30 mg / 30 mL	Full 🕻
Ļ	Vanconxcin	EXT_ID.097~	Lyancomy o	in		Habel Only

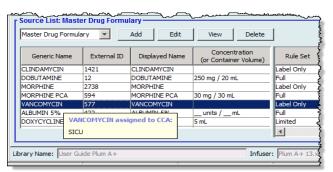
### Viewing Medication Entries in the Master Drug Formulary

#### To view a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary as the source location.

Source List: Mast		Add Edit	View Delete	
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set
CLINDAMYCIN	1421	CLINDAMYCIN		Label Only
DOBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL	Full
MORPHINE	2738	MORPHINE		Label Only
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	Full
VANCOMYCIN	577	VANCOMYCIN		Label Only
ALBUMIN 5%	422	ALBUMIN 5%	units /mL	Full
DOXYCYCLINE	1549	DOXYCYCLINE	5 mL	Limited
,		•		◄
Library Name: User G	uide Plum A+		Infuse	r: Plum A+ 13.x

Helpful Hint: If you hover your mouse pointer over any medication entry in the Master Drug Formulary, a "tool tip" displays the medication's generic name and concentration as well as the CCAs to which it has been assigned. The tool tip will disappear after 5 seconds.



- 2. Select the medication entry you want to view.
- 3. From the Source List, click **View**.

ource List: View Rule Set			
Generic Name (E	xternal ID) (Strength / Volume) {	Dosage Form}:	
VANCOMYCIN (577) (500 MG / 10 ML) {VIAL}			Select
Displayed Name:	Therapeutic Class:	Class ID:	
VANCOMYCIN			
Summary: VANCOMYCIN			
Rule Sets:			
Label Only			
	Close Help		
	<u>Close</u> <u>H</u> elp		

4. When you are finished viewing, click Close.

Helpful Hint: If you are viewing an Active or Archived library, you may also double-click the medication entry to view it.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Keeping or Clearing Rule Sets for Medication Entries**

- 1. Highlight a medication entry with existing rule sets, in either the Source List Master Drug Formulary or Target List.
- 2. Click Edit.

M Hospira MedNet™ Drug Library Manageme	-								- • · X
Enalize	Reports C	LCA Setup   Master Infi	user Setup						ose Help
Target List: 5 West									
5 West	•	Add Edit	View Clinical No	ote <u>R</u> emove		Arrange CC	A List	Medicati	on Entries: 1
Dose Rate Limits B	olus Limits Ove	erview							
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Dose Rate Dosing Unit	Dose Rate Lower Hard Limit	Dose Rate Lower Soft Limit	Dose Rate Upper Soft Limit	Dose Rate Upper Hard Limit	Maximum Dose Rate
Other Drug		Other Drug	/_mL						A
					111				*
Source List: Maste	-				_			N. 34 21 10	
Master Drug Formula	ry •	Add Edit	View Clinical Ng	ote Delete		Copy to Targ	et CCA	Medicati	on Entries: 2
Dose Rate Limits B	olus Limits Ove	erview							
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Dose Rate Dosing Unit	Dose Rate Lower Hard Limit	Dose Rate Lower Soft Limit	Dose Rate Upper Soft Limit	Dose Rate Upper Hard Limit	Maximum Dose Rate
	337	Adenosine *FFR	mcg /mL	mL/hr	5				*
Other Drug		Other Drug	/_mL						
Library Name: s			Infuser: Sym	nbiq 3,1	Status: Workshee	t Modified: Mar	05 2014 11:24AM	Mode: Edit Us	er: mednet_admin

The selected medication entry displays with its rule sets.

#### 3. Click Select.

edication and Concentration -					
		ic Name (External ID	) (Strength / Volume) {De	osage Form}:	
denosine *FFR (337)					Select
	ed Name:		Therapeutic Class:		Class ID:
denosine *FFR					
No Concentration	Summary: Adenosine	e *FFR mcg /	mL Dosed in mL/hr		
Diluent Only				V Enable S	tandby
Medication Amount:	Medication Unit:	Diluent Amo	unt: mL	Enable P	govback and Bolus from secondary
	mcg 🗸 🗸			when this	ggyback and Bolus from secondary s medication is infusing
na Data Lizita					Mariana Data
ose Rate Limits Dosing Unit:	LHL:	LSL:	USL:	UHL:	Maximum Rate [0.1 - 1000 mL/hr]
nL/hr 👻	5				[0.1 - 1000 mic/m]
Maximum Dose Rate Unit:	Maximum Dose Rate:				Therapies
<b>T</b>					V Basic
BI Limits					V Piggyback
	LHL: mL	LSL: mL	USL: mL	UHL: mL	✓ Intermittent
					Multistep
Enable Bolus					
Enable Bolus					High Risk Medication
Enable Bolus					
Enable Bolus					High Risk Medication Yes  No Delivery at End of Infusion
Enable Bolus					High Risk Medication
Enable Bolus					High Risk Medication Yes  No Delivery at End of Infusion
Enable Bolus					High Risk Medication Yes  No Delivery at End of Infusion None
Enable Bolus					High Risk Medication Yes  No Delivery at End of Infusion None Continue Rate
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:
Enable Bolus					High Risk Medication Yes No Delivery at End of Infusion None Continue Rate KVO Default KVO Rate:

At this point, you will be able to either apply the current Rule Set to another medication or select the medication highlighted and clear its current Rule Set.

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- 4. If you click Select Medication and CLEAR Current Rule Set, a confirmation message displays: Rule set will be reset to default values.
- 5. Click **OK** and the medication entry selected displays but the rule set fields are now empty.
- 6. You can now fill in the new rule set and then click **Save and Close** when satisfied or use the **Cancel** button.

Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	
denosine *FFR		337				
denosine Syringe		267				-
bumin 25%		6				
miodarone Rapid Bolus IVPE		139				
mphotericin ABELCET		13				
mphotericin AMBisome		14				
lected Medication			·	alume) /Dou	sage Form}:	
denosine *FFR (337)	Generic	Name (External ID)	Strength / vo	June/ (DO	sage ronny r	

- 7. If you want to keep the rule set of the medication entry highlighted but want to apply that rule set to another medication:
  - Highlight the "new" medication entry
- Helpful Hint: To select the medication, you can use the scroll bar or type the first letter(s) of the medication or the entire name next to Show generic names beginning with. You can also find the medication by external ID if you use the drop-down button and select to show the medication using the External ID, then entering the External ID.
  - Click Select Medication and KEEP Current Rule Set

A confirmation message displays: Review rule set values before saving this rule set.

- 8. Click OK.
- 9. The new entry displays. Click **Save and Close** if the entry is to your satisfaction. If not, use the **Cancel** button.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Copying Medication Entries to one or more CCAs**

1. Select the target CCA to which you want to copy a medication entry.

<b>₩</b> Hospira MedNet <sup>™</sup> Meds <sup>™</sup>	- Use	r Guide P	lum A+	5
Drug Library Management Repo	orts	CCA Setup	Master I	Infuser Setup
Einalize				
Target List:				î
Select a CCA 🔹		Add	Edit	View
Select a CCA		,		1
SICU	al ID	Display	ed Name	Concent
MICU			·	(or Contain
CV				Ş
ER				f
5 West	L		~~~~~	~~~~ ~``

2. Select the Master Drug Formulary or Source CCA from which you want to copy a medication entry (either the Master Drug Formulary or another CCA).

Master Drug Formu	lary 💌	A <u>d</u> d Edi <u>t</u>	Vie <u>w</u> Delete			Copy to Tar	get CCA
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Dosing Unit	Lower Hard Limit	Lower Soft Lim
LINDAMYCIN	1421	CLINDAMYCIN		Label Only			
DOBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL	Full	mL/hr	1	
MORPHINE	2738	MORPHINE		Label Only			
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	Full	mg/hr		1
ANCOMYCIN	577	VANCOMYCIN		Label Only			
ALBUMIN 5%	422	ALBUMIN 5%	units /mL	Full	mL/hr		
DOXYCYCLINE	1549	DOXYCYCLINE	5 mL	Limited	mL/hr	1	2
,	1			1			-

3. Select the medication entries you want to copy from the source CCA.

Helpful Hint: You may select multiple entries by clicking the first medication entry you want to copy, and holding the shift key while clicking the last medication entry you want to copy. Add or remove medications from the group you have selected by using the Control key.

4. Click Copy to Target CCA.

Master Drug Form	ulary 💌	Add Edit	Vie <u>w</u> Delete			Copy to Tar	getCCA
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Dosing Unit	Lower Hard Limit	Lower Soft Lin
LINDAMYCIN	1421	CLINDAMYCIN		Label Only			
OBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL	Full	mL/hr	1	
10RPHINE	2738	MORPHINE		Label Only			
10RPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	Full	mg/hr		1
ANCOMYCIN	577	VANCOMYCIN		Label Only			
LBUMIN 5%	422	ALBUMIN 5%	units /mL	Full	mL/hr		
OXYCYCLINE	1549	DOXYCYCLINE	5 mL	Limited	mL/hr	1	2
				•	1		

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

5. Verify you have selected the correct medication entries.

🗹 Confirm Copy to CCA	×
Copy from: Master Drug Formulary	
Copy to: ER	
Medication Entries	
DOBUTAMINE 250 mg / 20 mL	
Copy <u>Cancel H</u> elp	

- 6. Click Copy to copy the selected medication entries to the target CCA.
- **Note:** The maximum number of medication entries in a CCA is 25 for a LifeCare PCA, up to 400 each for SapphirePlus, and 150 for the Plum A+. For SapphirePlus, and for certain Plum infusers licensed for Drug Library Size Level 2, a CCA can contain up to 400 medication entries. (See the Hospira MedNet Software Device Compatibility Matrix to determine the availability of the Plum version. The matrix is available through the Advanced Knowledge Center).
- Note: Duplicate or conflicting medication entries cannot be copied.

### **Deleting Medication Entries from the Master Drug Formulary**

**Note:** Deleted medication entries are permanently removed from the Master Drug Formulary and from all CCAs in which they appear.

Only users with the appropriate login privileges are able to delete medication entries from the Master Drug Formulary.

1. Select Master Drug Formulary as the Source List.

		1	Concentration	
Generic Name	External ID	Displayed Name	(or Container Volume)	Rule Set
CLINDAMYCIN	1421	CLINDAMYCIN		Label Only
DOBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL	Full
MORPHINE	2738	MORPHINE		Label Only
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	Full
VANCOMYCIN	577	VANCOMYCIN		Label Only
ALBUMIN 5%	422	ALBUMIN 5%	units /mL	Full
DOXYCYCLINE	1549	DOXYCYCLINE	5 mL	Limited

- 2. From the Source List, select the medication entry you want to delete.
- 3. Click Delete.
- 4. From the Source List: Delete Rule Set window, click Delete.

Source List: Delete Rule Set			×
Generic Name (	External ID) (Strength / Volume) {[	losage Form}:	
VANCOMYCIN (577) (500 MG / 10 ML) {VIAL}			<u>S</u> elect
Displayed Name:	Therapeutic Class:	Class ID:	_
VANCOMYCIN			
Summary: VANCOMYCIN			
Rule Sets:			
Label Only			
	elete <u>C</u> ancel <u>H</u> elp		

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

5. A confirmation message displays listing all affected CCAs. Click **OK** to permanently remove the selected medication entry from the Master Drug Formulary and all CCAs in which it appears.

Contraction
Deleting this medication entry will remove it from the master formulary as well as from the following CCAs: SICU
OK Cancel

**Note:** You cannot delete the "No Drug Selected" entry from a Plum A+ Master Drug Formulary, or any CCA.

#### **Finalizing Worksheets**

**Note:** Before finalizing a Worksheet, we recommend that a qualified person such as a hospital pharmacist or a multidisciplinary committee of clinicians review the drug library for accuracy, per hospital policy.

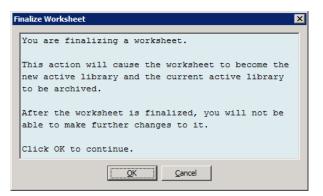
Only users with the appropriate login privileges are able to finalize a Worksheet.

#### To finalize a Worksheet:

- **Note:** The Generic Name and External ID of a medication entry must be present in the Master Drug Formulary for the Worksheet to be finalized.
  - 1. From the Drug Library Management view, click Finalize.

	🖬 Hospira MedNet™ Meds™ - User Guide Plum A+							
D	rug Library Managem	ent Reports 0	CCA Setup   Master I	nfuser Setup				
$\left<\right.$	Einalize							
Г	Target List: 2 North							
	2 North	•	<u>A</u> dd <u>E</u> dit	<u>V</u> iew	<u>R</u> emove			
	Generic Name	External ID	Displayed Name	Concentr (or Container				
	No Drug Selected		No Drug Selected					
	ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL				
	CEFAZOLIN	1433	CEFAZOLIN	mg /mL				
	CLINDAMYCIN	1421	CLINDAMYCIN					
	DOBUTAMINE	12	DOBUTAMINE	250 mg / 20 mL				
	MORPHINE	2738	MORPHINE					
	MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL				
_	VANCOMICIN	577	MANGOMYCIN	harm				

- Note: Once the finalization process begins, it cannot be stopped or undone.
  - 2. Click **OK** to finalize the Worksheet.



3. A progress bar appears briefly.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

**Important:** If your network connection is lost during the finalization process, copy the library that was being finalized, and then finalize the library.

- **Note:** Finalization may require several minutes for large libraries. A message may display if the library does not finalize successfully within 20 minutes.
  - 4. A pop-up confirms that the Worksheet has been finalized successfully.



5. Click OK.

The Date Finalized displays in the Library Directory.

### **Closing Worksheets**

#### To close a Worksheet:

From the Drug Library Management view, click Close.
 You will be returned to the Library Directory view.

Note: When you close a worksheet, that worksheet is saved.

# **Chapter 7: Hospira MedNet Meds Reports**

## **Overview**

The Hospira MedNet Meds Reports view allows you to create and print reports on drug libraries for the licensed infusers. For individual report details, refer to the report by name later in this chapter.

**Note:** For information about the Hospira MedNet Software reports, see **Chapter 16: Reports** in the Hospira MedNet Software User Guide.

### **Report Conventions**

The following conventions are common to all reports:

- Users with the appropriate logon privileges have access to the Reports View.
- Drop-down lists display all valid selections.
- Fields appear blank when no data is available.

### **Report Details**

Reports may span multiple pages and are navigable using the vertical and horizontal scroll bars.

All Drug Library reports display the following information:

Licensed Infusers					
Field	Description				
Drug Library	The name of the drug library or Worksheet				
Infuser Type	The type of infuser				
Date Finalized	The date or time when the Active library or Archive was finalized (not available for Worksheets)				
Library State	The state of the library: Active, Archive, or Worksheet				

Additional details will vary depending on the infuser you select, as described later in this chapter.

The reports will also reflect the date format and distal pressure specific to the configuration you selected.

**Note:** The structure of reports from Hospira MedNet Meds cannot be altered or configured by the user.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To display the Reports page:

- 1. Open a Worksheet or library. (For instructions on opening a Worksheet or library, see **Chapter 5: The Library Directory**, on page 27.)
- 2. Click the **Reports** tab.

M Hospira MedNet™ Me	eds™ - Us	er Guide		
Drug Library Management	Reports	CCA Setup	Master Infuser Setup	•
Choose a report	-			
Report Output				
				;
				4
		~_~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

3. Select a report from the Choose a report drop-down list.

The report selection will vary depending on the infuser, as described further in this chapter.

M Hospira MedNet™ Meds™ - Us	er Guide
Drug Library Management Reports	CCA Setup Master Infuser Setup
Choose a report 👻	
Choose a report	
Drug Library CCA Drug Library	
Master Infuser & CCA Settings	]
	1

## Plum A+ and Plum 360 Drug Library Reports

The following reports are available:

- Drug Library
- CCA Drug Library
- Master Infuser & CCA Settings

### Plum 360 Drug Library

This report displays detailed information on all medications in the Plum 360 Master Drug Formulary.

	Meds <sup>ne</sup> - Plum User Guid	and the second											1
	nt Reports CCA Setup 1	Master Infuser Set	tup										
g Library	×										Print Sa	ge to File	ose
port Output													
					Next La	et.							
	Drug Library Infuser Type Date Finalized Library State												
Plum User Guid	e Library		Plum A+			N/A					Worksheet		
Generic Name	Displayed Name	Concentrat Container V		Rule Sets	Clinical Use	Dosing Unit	LHL	LSL	USL	UHL	External ID	Therapeutic Class	Class ID
Acyclovir	Acyclovir	500 mcg / 10	mL	Full	NOT SPECIFIED	mcg/kg/hr	1				EXT_ID_002	Class_Descr_02	class_02
Piggyback delb	very allowed: Yes												
Allow piggybac	k to interrupt this info	asion: Yes											
Assigned CCA	s: 5 West												
Cefazolin	Cefazolin	mg/m	L	Full	NOT SPECIFIED	mL/hr	5				EXT_ID_018	Class_Descr_18	class_18
Piggyback deliv	very allowed: Yes												
Allow piggybac	k to interrupt this infu	asion: Yes											
Assigned CCA	s: 5 West												
		250 mcg / 20 mL Full				ml/hr 1							
DOBUTamine	DOBUTamine	250 mcg / 20	mL	Full	CARDIAC	ml./hr	1				EXT_ID_035	Class_Descr_35	class_35
	DOBUTamine very allowed: Yes	250 mcg / 20	mL	Full	CARDIAC	mL/hr	1				EXT_ID_035	Class_Descr_35	class_35
Piggyback deliv			mL	Full	CARDIAC	mL/hr	1				EXT_ID_035	Class_Descr_35	class_35
Piggyback deliv	very allowed: Yes k to interrupt this info		mL	Ful	CARDIAC	mL/hr	1				EXT_ID_035	Class_Descr_35	class_35

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Plum 360								
Medication Entries	Description							
Generic Name	The generic name of the medication							
Displayed Name	The medication name that displays on the infuser							
Concentration (or Container Volume) <sup>1</sup>	Concatenation of medication amount, medication unit, diluent amount, and diluent unit							
Rule Sets	The type of rule set created for the medication. Includes full, limited, and label only							
Clinical Use (Plum 360 only)	The clinical use attributed to the medication							
Dosing Unit	The dosing unit selected for the medication							
LHL	Lower Hard Limit - the lower limit that cannot be overridden							
LSL	Lower Soft Limit - the lower limit that can be overridden							
USL	Upper Soft Limit - the upper limit that can be overridden							
UHL	Upper Hard Limit - the upper limit that cannot be overridden							
External ID	The ID number used to match an order to the medication entry in the drug library							
Therapeutic Class	Therapeutic class assigned to the medication entry							
Class ID	The ID number for the therapeutic class							
Piggyback delivery allowed	Indicates whether this option was selected							
Allow piggyback to interrupt this infusion	Indicates whether this option was selected							
Assigned CCAs	CCAs to which the drug is assigned							
<sup>1</sup> When the rule type is Limited,	this field displays the container volume							

### Plum A+ Drug Library

This report displays detailed information on all medications in the Plum A+ Master Drug Formulary.

, each a f i than a granner at	eports CCA Setup Mast	er Infuser Setup											
g Library	~											Print Saye to File Glose	
port Output													
1	Drug Library		Infuser T	ype				Da	nte Fin	alized		Library State	
User Guide PlumA+			Plum A+			N/A						Worksheet	
							_		_	1			
Generic Name	Displayed Name	Concentrat	ion (or Container Volume)	Rule Sets	Dosing Unit	LHL	LSL	USL	UHL	External ID	Therapeutic Class		Class ID
No Drug Selected	No Drug Selected			Label Only									
				Assigned C	CAs: 2 No	rth, 5 V	Vest, I	ICU					
CLINDAMYCIN	CLINDAMYCIN			Label Only						1421	ANTIBACT	IBACTERIALS MISCELLANEOUS	
				As	signed CC.	As: ICU	J		,	,	,		
DEXT 5% 1/4NSS	DEXT 5% 1/4NSS	_ mg / _ r	nL	Full	mL/hr			5		2443	CALORIC	AGENTS	40:20.0
				As	signed CC.	As: ICU	J			,	,		,
DOPAMINE	DOPAMINE	40 mg / 1 mL		Full			1 1734			1734	BETA-ADRENERGIC AGONISTS		
				As	signed CC.	As: ICU	j			,	,		
MORPHINE	MORPHINE	250 mL		Limited	mL/hr				2	2738	OPIATE A	JONISTS	28:08.0
	,	,		As	signed CC.	As: ICU	J	,		,	,		
MODEDINEDUDINE	NOREPINEPHRINE	4 mg / 4 ml		Full	mL/hr			2		241	ALPHA- AT	D BETA-ADRENERGIC AGONISTS\1	12.12.1

Plum A+							
Medication Entries	Description						
Generic Name	The generic name of the medication						
Displayed Name	The medication name that displays on the infuser						
Concentration (or Container Volume) <sup>1</sup>	Concatenation of medication amount, medication unit, diluent amount, and diluent unit						
Rule Sets	The type of rule set created for the medication. Includes full, limited, and label only						
Dosing Unit	The dosing unit selected for the medication						
LHL	Lower Hard Limit - the lower limit that cannot be overridden						
LSL	Lower Soft Limit - the lower limit that can be overridden						
USL	Upper Soft Limit - the upper limit that can be overridden						
UHL	Upper Hard Limit - the upper limit that cannot be overridden						
Assigned CCAs	CCAs to which the drug is assigned						
External ID	The ID number used to match an order to the medication entry in the drug library						
Therapeutic Class	Therapeutic class assigned to the medication entry						
Class ID	The ID number for the therapeutic class						
<sup>1</sup> When the rule type is Limited,	this field displays the container volume						

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Plum 360 - CCA Drug Library

This report shows each CCA along with its associated medication entries. CCAs are listed in the order in which they are created.

lospira MedNet™ Med	s™ - Plum User Guide	Library											
g Library Management R	teports CCA Setup   M	laster Infuser Se	tup										
A Drug Library											Print Sa	aye to File	⊆lose
eport Output													
					Next Las	<u>st</u>							
I	Drug Library			Infuser	Туре		Date	Finaliz	ed			Library State	
Plum User Guide Lib	orary		Plum			N/A					Worksheet		
									_				
Generic Name	Displayed Name	Concentra Container		Rule Sets	Clinical Use	Dosing Unit	LHL	LSL	USL	UHL	External ID	Therapeutic Class	Class ID
					CCA Name:	UNC							
No Drug Selected	No Drug Selected			Label Only									
Piggyback delivery	allowed: Yes												
Allow piggyback to	interrupt this infu	sion: Yes											
Assigned CCAs: 5	West, Bolus, ICU, U	NC											
					CCA Name:	Bolus							
No Drug Selected	g Selected No Drug Selected Label Only												
Piggyback delivery	allowed: Yes												
Allow piggyback to	interrupt this infu	sion: Yes											
Assigned CCAs: 5	West, Bolus, ICU, U	NC											
					CCA Name:	ICU							
No Drug Selected	No Drug Selected			Label Only									
Piggyback delivery	allowed: Yes												
												Mode: Edit	

Plum 360							
Medication Entries	Description						
Generic Name	The generic name of the medication						
Displayed Name	The medication name that displays on the infuser						
Concentration (or Container Volume) <sup>1</sup>	Concatenation of medication amount, medication unit, diluent amount, and diluent unit						
Rule Sets	The type of rule set created for the medication. Includes full, limited, and label only						
Dosing Unit	The dosing unit selected for the medication						
LHL	Lower Hard Limit - the lower limit that cannot be overridden						
LSL	Lower Soft Limit - the lower limit that can be overridden						
USL	Upper Soft Limit - the upper limit that can be overridden						
UHL	Upper Hard Limit - the upper limit that cannot be overridden						
Assigned CCAs	CCAs to which the drug is assigned						
External ID	The ID number used to match an order to the medication entry in the drug library						
Therapeutic Class	Therapeutic class assigned to the medication entry						
Class ID	The ID number for the therapeutic class						
<sup>1</sup> When the rule type is Limited	, this field displays the container volume						

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Plum A+ CCA Drug Library

This report shows each CCA along with its associated medication entries. CCAs are listed in the order in which they are created.

												[	
	Drug Library		Infuser Ty	ре				Da	te Fin	alized		Library State	
Jser Guide PlumA+			Plum A+		1	N/A						Worksheet	
Generic Name	Displayed Name	Concentra	tion (or Container Volume)	Rule Sets	Dosing Unit	LHL	LSL	USL	UHL	External ID	1 Therapeutic Class		
CCA Name: ICU													
No Drug Selected	No Drug Selected			Label Only									-
			1	Assigned CC	As: 2 Nor	rth, 5 W	Vest, IC	U					
CLINDAMYCIN	CLINDAMYCIN			Label Only						1421	ANTIBACT	ERIALS MISCELLANEOUS	08:12.28
				Assi	gned CC/	s: ICU	J						
MORPHINE	MORPHINE	250 mL		Limited	mL/hr				2	2738	OPIATE A	GONISTS	28:08.08
				Assi	gned CC/	s: ICU	,						
NOREPINEPHRINE	NOREPINEPHRINE	4 mg / 4 ml	L	Full	mL/hr			2		241	ALPHA- AM	D BETA-ADRENERGIC AGONISTS\1	12:12.12
				Assi	gned CCA	s: ICU	ì						
DOPAMINE	DOPAMINE	40 mg / 1 n	nL	Full	mL/hr 1 1734 BE			1734	BETA-ADRENERGIC AGONISTS 12:12.08				
				Assi	gned CCA	s: ICU	1						
DEXT 5% 1/4NSS	DEXT 5% 1/4NSS	mg /	mL	Full	mL/hr			5		2443	CALORIC	AGENTS	40:20.00
				Assi	gned CC#	As: ICU	ì						
				CC	A Name: 2	2 North							
No Drug Selected	No Drug Selected			Label Only									
			1	Assigned CC	As: 2 Not	rth, 5 W	Vest, IC	U					
				CC.	A Name:	5 West							
No Drug Selected	No Drug Selected			Label Only									
				Assigned CC	Act 2 blos	45. C U	Zeat 1C	11					

	Plum A+
Medication Entries	Description
Generic Name	The generic name of the medication
Displayed Name	The medication name that displays on the infuser
Concentration (or Container Volume) <sup>1</sup>	Concatenation of medication amount, medication unit, diluent amount, and diluent unit
Rule Sets	The type of rule set created for the medication. Includes full, limited, and label only
Dosing Unit	The dosing unit selected for the medication
LHL	Lower Hard Limit - the lower limit that cannot be overridden
LSL	Lower Soft Limit - the lower limit that can be overridden
USL	Upper Soft Limit - the upper limit that can be overridden
UHL	Upper Hard Limit - the upper limit that cannot be overridden
Assigned CCAs	CCAs to which the drug is assigned
External ID	The ID number used to match an order to the medication entry in the drug library
Therapeutic Class	Therapeutic class assigned to the medication entry
Class ID	The ID number for the therapeutic class
<sup>1</sup> When the rule type is Limited	this field displays the container volume

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Plum 360 Master Infuser and CCA Settings**

This report displays detailed information on all Plum 360 master infusers and active CCA settings.

	r Setup						
ster Infuser & CCA Settings 👻					Print Save to F	ie <u>Q</u> ose	
eport output							
		Next La	1				
Drug Library		Infuser Type				State	
New Plum for User Guide	Plum 360 1	15.x	N/A		Worksheet		
Master Infuser Settings							
Continue Rate		KVO	Callback Notification			No	
Deliver Together		Piggyback	Force Pump to Accept Drug Library I	During Powe	er Down	No	
Auto-program Rejection Reason Timeout (second	nds)	15	Maximum Standby Time (hours)		72		
Default Clinical Use		NOT SPECIFIED	1				
	e: Critical Care	Minimum Value	Service	ce Line: ICU - medical			
Patient Limits		Minimum Value		Maximum Value			
BSA		0.012 m²		7.07 m <sup>2</sup>			
Patient Height		7.5 cm		305 cm			
		0.1 kg		500 kg			
Patient Weight		Item		Value			
Patient Weight Alarm Settings		Default Setting		6 psi			
				0			
Alarm Settings		Distal Occlusion Auto-Reset		0			
Alarm Settings Distal Occlusion Pressure		Distal Occlusion Auto-Reset Item		0 Value			
Alarm Settings Distal Occlusion Pressure Occlusion Pressure Auto-Reset				-			
Alarm Settings Distal Occlusion Pressure Occlusion Pressure Auto-Reset Other Infuser Parameters		Item		Value			

	Plum 360
Master Infuser Settings	Description
Continue Rate	The default delivery rate the infuser switches to after a therapy completes: KVO or programmed rate
Callback Notification	The default callback setting: Yes or No
Deliver Together	The default deliver together method: Piggyback or Concurrent
Force Pump to Accept Drug Library Power Down	To automatically install a new Medication Library upon infuser turn off. The default is No.
Auto-program Rejection Reason Timeout (seconds)	The amount of time a rejection reason appears on the infuser
Maximum Standby Time (hours)	The period of time the infuser can wait before beginning a therapy
Default Clinical Use	The default clinical use entered that will replace "Not Specified" fields in the rule set
CCA Settings	Description
CCA Name	The CCA name
Service Line	The service line name
BSA	The minimum and maximum value
Patient Height	The minimum and maximum patient height
Patient Weight	The minimum and maximum patient weight
Distal Occlusion Pressure	The default and maximum setting
Occlusion Pressure Auto- Reset	The occlusion pressure auto-resets
Distal Occlusion Auto-Reset	The distal occlusion auto-resets
Delayed Start	The default delay start setting: Enabled or Disabled
Standby	The default setting to Enable or Disable standby before the beginning of a therapy
Maximum Dose Rate (mL/hr)	The maximum delivery rate

Hospira MedNet Meds Software User Guide

. Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Plum A+ Master Infuser and CCA Settings**

This report displays detailed information on all Plum A+ master infusers and active CCA settings.

đ	Hospira MedNet™ Meds™	- User Guide PlumA+										
Dru	g Library Management Repor	rts CCA Setup Master Infuser	Setup									
Ma	ister Infuser & CCA Settings	~								Print Si	aye to File	Close Help
[R	eport Output											
	Drug Library Infuser Type					Date Finalized					Library State	e
	User Guide PlumA+		P	'hum A+	N	VA				Worksheet		
1	Master Infuser Settings											
	Contin	ue Rate		Callback Notification		1	Delay S	tart		De	liver Togethe	ex.
	KVO	1	Чo			Yes Piggyback			Piggyback			
	CCA Settings			2								
	CCA Name	Service Line		Default Occlusion Pressure	М	inimum Patient \	Weight	N	daximum	Patient Weight	Ma	ximum Rate
	ICU	ICU - medical		6	0.1			500			999	
	2 North	Emergency services		6	0.1	500				999		
	5 West	Obstetrics/gynecology		6	0.1	500				999		
												Page 1 of 1
Libra	ary Name: User Guide PlumA-	+			Infuser	Plum A+	Status:	Worksheet	Modified: D	ec 30 2009 11:20AM	Mode: Edit	User: mednet_admin

	Plum A+								
Master Infuser Settings	Description								
Continue Rate	The default delivery rate the infuser switches to after a therapy completes: KVO or programmed rate								
Callback Notification	The default callback setting: Yes or No								
Delay Start	The default delay start setting: Yes (Enabled) or No (Disabled)								
Deliver Together	The default deliver together method: Piggyback or Concurrent								
CCA Settings	Description								
CCA Name	The CCA name								
Service Line	The service line name								
Default Occlusion Pressure	The default minimum pressure that will cause the infuser to report an occlusion alarm								
Minimum Patient Weight	The minimum patient weight allowed in the CCA								
Maximum Patient Weight	The maximum patient weight allowed in the CCA								
Maximum Rate	The maximum delivery rate allowed in the CCA								

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## LifeCare PCA Drug Library Reports

The following reports are available for the LifeCare PCA infuser:

- Drug Library
- CCA Drug Library
- Master Infuser & CCA Settings
- LifeCare PCA Master Protocol

#### LifeCare PCA Drug Library

This report displays detailed information on all medications in the LifeCare PCA Master Drug Formulary.

g Library port Output	•									<u>P</u> i	rint	Sa <u>v</u> e to File	<u>⊂</u> lose <u>H</u>	le
				T-6 T				D-4	- Ding ling d			L Arrows Charles		1
Drug Library User Guide PCA LifeCare PC					Infuser Type         Date Finalized           CA 5.x         N/A						Library State Worksheet			
				1					1				ר ה	
Generic Name	Displayed Name		tainer ntration	Rule Set Groups	LHL	LSL	USL	UHL	Assigned CCAs	Extern	nal ID	Therapeutic Class	Class ID	
Ampicillin	Ampicillin	250 mg/	5 mL	Loading Dose					No EX	EXT_IE	EXT_ID_011	Class_Descr_11	class_11	
	Bar Code 1: 13521	Bar Code 1: 13521												
	Bar Code 2:			Continuous Rate										
	Bar Code 3:													
	Bar Code 4:				Time Interval 4-hours									
	Bar Code 5:	Bar Code 5:												
Clindamycin	Clindamycin	100 mg/	5 mL	Loading Dose					No	EXT_IE	_031	Class_Descr_31	class_31	
	Bar Code 1: 2513			PCA Dose										
	Bar Code 2:			Continuous Rate										
	Bar Code 3:			Dose Limit										
	Bar Code 4:			Time Interval	4-hours									
	Bar Code 5:													
DOPamine	DOPamine	400 mcg	/4 mL	Loading Dose					No	EXT_IE	037	Class_Descr_37	class_37	
	Bar Code 1: 8942		PCA Dose											

Library Name: User Guide PCA

Infuser: LifeCare PCA 5.x Status: Worksheet Modified: Jul 26 2013 01:37PM Mode: Edit User: mednet\_admin

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

	LifeCare PCA
Field	Description
Generic Name	The generic name of the medication
Displayed Name	The medication name that displays on the infuser
Container Concentration	Concatenation of medication amount, medication unit, diluent amount, and diluent unit
Bar Code	The bar code(s) associated with the medication entry. Up to five bar codes are possible
Rule Set Groups	Dosing limits defined for the medication. Dosing limits can be defined for Loading Dose, Continuous Rate, PCA Dose, and Dose Limit
LHL	Lower Hard Limit - the lower limit that cannot be overridden
LSL	Lower Soft Limit - the lower limit that can be overridden
USL	Upper Soft Limit - the upper limit that can be overridden
UHL	Upper Hard Limit - the upper limit that cannot be overridden
Time Interval	Period of time over which the Dose Limit is evaluated
Assigned CCAs	CCAs to which the drug is assigned
External ID	The ID number used to match an order to the medication entry in the drug library
Therapeutic Class	Therapeutic class assigned to the medication
Class ID	The ID for the therapeutic class

### LifeCare PCA CCA Drug Library

This report provides information on all medication entries assigned to a specific CCA.

#### Note: This report lists CCAs in the order in which they were created.

Drug Library	ent Reports CCA Setu	ip [ Haster	1110361 560								rint	Save to File	⊆lose H
ort Output											grinic		
ion output													
				1.C. T.				<b>D</b> (	T" 1' 1			7.7	
Drug Library Infuser Typ						Date	e Finalized			Library State			
User Guide PCA LifeCare PCA 5.x				CA 5.x			N/A				Worksh	eet	
Generic Name	Displayed Name	Conta Concen		Rule Set Groups	LHL	LSL	USL	UHL	Assigned CCAs	Exter	nal ID	Therapeutic Class	Class ID
		Conten											
					CCA	Name: 1	Neonatal						
No Medication I	Entries defined for th	is CCA											
	CCA Name: ENT												
Io Medication Entries defined for this CCA													
No Medication I	Entries defined for th	is CCA				A Name	: EN I						
No Medication I	Entries defined for th	is CCA											
						A Name Name:				1		1	
	Entries defined for th	is CCA 250 mg/:	5 mL	Loading Dose					4 South	EXT_II	D_011	Class_Descr_11	class_11
				Loading Dose PCA Dose					4 South	EXT_II	D_011	Class_Descr_11	class_11
	Ampicillin			-					4 South	EXT_II	D_011	Class_Descr_11	class_11
	Ampicillin Bar Code 1: 13521			PCA Dose					4 South	EXT_II	D_011	Class_Descr_11	class_11
	Ampicillin Bar Code 1: 13521 Bar Code 2:			PCA Dose Continuous Rate					4 South	EXT_II	D_011	Class_Descr_11	class_11
No Medication 1	Ampicillin Bar Code 1: 13521 Bar Code 2: Bar Code 3:			PCA Dose Continuous Rate Dose Limit	CCA				4 South	EXT_II	D_011	Class_Descr_11	class_11
Ampicillin	Ampicillin Bar Code 1: 13521 Bar Code 2: Bar Code 3: Bar Code 4:			PCA Dose Continuous Rate Dose Limit	CCA				4 South				
	Ampicillin Bar Code 1: 13521 Bar Code 2: Bar Code 3: Bar Code 4: Bar Code 5:	250 mg / :	5 mL	PCA Dose Continuous Rate Dose Limit Time Interval Loading Dose	CCA					EXT_II		Class_Descr_11 Class_Descr_11	class_11 class_31
Ampicillin	Ampicillin Bar Code 1: 13521 Bar Code 2: Bar Code 3: Bar Code 4: Bar Code 5: Clindamycin	250 mg / :	5 mL	PCA Dose Continuous Rate Dose Limit Time Interval	CCA								

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

	LifeCare PCA
Medication Entries	Description
Generic Name	The generic name of the medication
Displayed Name	The medication name that displays on the infuser
Container Concentration	Concatenation of medication amount, medication unit, diluent amount, and diluent unit
Bar Code	The bar code(s) associated with the medication entry. Up to five bar codes are possible
Rule Set Groups	Dosing limits defined for the medication. Dosing limits can be defined for loading dose, continuous rate, PCA dose, and dose limit
LHL	Lower Hard Limit - the lower limit that cannot be overridden
LSL	Lower Soft Limit - the lower limit that can be overridden
USL	Upper Soft Limit - the upper limit that can be overridden
UHL	Upper Hard Limit - the upper limit that cannot be overridden
Time Interval	Period of time over which the Dose Limit is evaluated
Assigned CCAs	CCAs to which the drug is assigned
External ID	The ID number used to match an order to the medication entry in the drug library
Therapeutic Class	Therapeutic class assigned to the medication
Class ID	The ID for the therapeutic class

### LifeCare PCA Master Infuser & CCA Settings

This report displays detailed information on the LifeCare PCA master infuser and CCA settings.

	edNet™Meds™-User G anagement Reports CC/		user Setup Protocols						_		
ter Infuser oort Outpu	r & CCA Settings 🔽	·					Print	Sa <u>v</u> e to File	<u>C</u> lose <u>H</u>		
Vaster Infuser Settings											
	nfuser Settings Nurse Call Relay Co	ntacts	Auto-progra	mming	Purge Capab		PCA Tor	10			
Normally Open Disabled			Disabled		Enabled		Different	Accept/Reject ton	es		
History Format Clock F			Clock Fo	rmat	Alarm Sour	ıds					
l & 24 h	nours		24-hour Clock		Alarm 1						
CCA Settings											
		CCA Name: Ne	onatal			Service Lin	<b>le:</b> ICU - r	neonatal			
	Min	imum Lockout	Interval: 5			Maximum Lo	ockout In	<b>terval:</b> 120			
No.	Protocol Name	Medication	Delivery Mode	PCA Dose	Continuous Rate	Lockout II	nterval	Dose Limit	Time Interval		
No Proto	ocols defined for this C	CA									
	I	CCA Name: EN	Т		Se	ervice Line: E	ar Nose &	: Throat			
	Min	imum Lockout	Interval: 5		Maximum Lockout Interval: 120						
No.	Protocol Name	Medication	Delivery Mode	PCA Dose	Continuous Rate	Lockout Ir	nterval	Dose Limit	Time Interval		
No Proto	ocols defined for this C	CA									
		CCA Name: 4	South			Service L	ine: Amb	ulatory			
	Min	imum Lockout	Interval: 5			Maximum Lo	ockout In	terval: 120			
No.	Protocol Name	Medication	Delivery Mode	PCA Dose	Continuous Rate	Lockout In	nterval	Dose Limit	Time Interval		
No Proto	ocols defined for this C	CA									
y Name:	User Guide PCA			Infuser: LifeCa	re PCA 5.x Status: Works	heet Modified:	Jul 26 2013	01:45PM Mode:	Edit User: mednet_		

LifeCare PCA								
Field	Description							
	Master Infuser Settings							
Nurse Call Relay Contacts	Open or closed							
Auto-programming	Enabled or disabled							
Purge Capability	Enabled or disabled							
PCA Tone	Status of acceptance and rejections tones							
History Format	Formats available for CCA history							
Clock Format	Clock format setting							
Alarm Sounds	Alarm sounds settings							
CCA Settings								
CCA Name	Name of CCA							
Service Line	Name of service line							
Minimum Lockout Interval	Minimum lockout interval for CCA							
Maximum Lockout Interval	Maximum lockout interval for CCA							
	Protocol							
No.	Number of protocol							
Protocol Name	Name of protocol							
Medication	Name of medication							
Delivery Mode	Delivery mode setting for CCA							
PCA Dose	PCA Dose for amount of medication							
Continuous Rate	Continuous dose rate per hour							
Lockout Interval	Lockout interval setting							
Dose Limit	Dose limit in mg or mcg							
Time Interval	Time intervals for the Dose Limit							

### LifeCare PCA Master Protocol

This report displays detailed information on each master protocol for the LifeCare PCA infuser.

	Drug Lik	nary	Infuser	Туре		Date Finalized			Library St	ate
User Guide PCA LifeCare PCA 5.x N/A Worksheet										
laster	Protocol									
No.	Protocol Name	Mee	lication	Delivery Mode	PCA Dose	Continuous Rate	Lockout Int	erval	Dose Limit	Time Interva
1	Morphine PCA	Morphine (EXT_ID	_072) 30 mg / 30 mL	PCA + Continuous	1 mg	1 mg/hr	15 minutes		20 mg	4-hours
2		Fentanyl (EXT_ID_	.046) 300 mcg / 30 mL	PCA + Continuous	10 mcg	12 mcg/hr	15 minutes			4-hours

LifeCare PCA				
Field	Description			
Master Protocol	Details for each protocol in the library's Master Protocol List			
No.	Number of protocol			
Protocol Name	Name of protocol			
Medication	Displayed name of medication			
Delivery Mode	Delivery mode for each protocol			
PCA Dose	PCA dose for each protocol			
Continuous Rate	Continuous rate for each protocol in medication unit per hour format			
Lockout Interval	Lockout interval for each protocol			
Dose Limit	Dose limit for each protocol			
Time Interval	Time interval for each protocol			

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## SapphirePlus Drug Library Reports

The following reports are available for the SapphirePlus infuser:

- Drug Library
- CCA Drug Library
- Master Infuser & CCA Settings

### SapphirePlus Drug Library

This report displays detailed information on all medications in the SapphirePlus Master Drug Formulary.

ospira MedNet <sup>™</sup> Meds™ - User Guide							
Library Management Reports CCA Setup Master Infue	ser Setup						
Library						Eri	nt Sage to File Glose
ort Output							
			N	ext Last			
Drug Library		Infas	ser Type	D	ate Finalized		Library State
User Guide Sapphire 13.x			N/A			Worksheet	
Rule Set Groups	Dosi	ng Unit	LHL	LSL	USL	UHL	Assigned CCAs
Generic Name: ACYCLOVIR		External ID	: 1701	Therapeutic Class	: ANTIVIRALS (SYSTEMIC) 1		Class ID: 08:18.00
Displayed Name: ACYCLOVIR		Concer	stration: 500 mg / 10 mL		Enable Bolus: No	Maxi	mum Bolus Amount:
lose Rate Limits - Rate	mL/hr						
Solus Limits - Amount							Main Floor
Bolus Limits - Time							Man Floor
Bolus Limits - Dose Rate		6					
		1	Iherapies: Basic (Continuous	), Piggyback (Secondary),	Multistep		
Generic Name: AMIODARONE		External II	<b>):</b> 1719	Therapeutic Class:	ANTIARRHYTHMIC AGENTS 1	Ú.	Class ID: 24:04.04
Displayed Name: AMIODARON	Ē	Cone	entration: 50 mg / 3 mL Enable Bolus: No		Maximum Bolus Amount:		
lose Rate Limits - Rate	mg/min.						
Solus Limits - Amount							Mile Providence
Bolus Limits - Time							Main Floor
Bolus Limits - Dose Rate							
		1	Therapies: Basic (Continuous	), Piggyback (Secondary),	Multistep		
Generic Name: DEXTROSE (POL)	YOLEFIN) 5%		External ID: 2396	Ther	apeutic Class: CALORIC AGENT	rs	Class ID: 40:20.00
Displayed Name: DEXTROSE (P	OLYO	(	Concentration: 250 mg / mL		Enable Bolus: No	Max	imum Bolus Amount:
Dose Rate Limits - Rate	mL/hr						
Bolus Limits - Amount							11. 12
Solus Limits - Time							Main Floor
Bolus Limits - Dose Rate							
		1	Therapies: Basic (Continuous	), Piggyback (Secondary),	Multistep		

SapphirePlus				
Medication Entries	Description			
Displayed Name	The medication name that displays on the infuser			
Concentration or Container Volume	r Concatenation of medication amount, medication unit, diluent amount, and diluent unit			
Rule Set Groups	The types of rule sets created for the medication: Dose Rate, and Bolus			
Dosing Unit	The dosing unit selected for the medication			
LHL	Lower Hard Limit (cannot be overridden)			
LSL	Lower Soft Limit - the lower limit that can be overridden			
USL	Upper Soft Limit - the upper limit that can be overridden			
UHL	Upper Hard Limit (cannot be overridden)			
Other Settings	Includes Enable Bolus, Bolus Units, Bolus Limits, and Maximum Bolus Amount			
Assigned CCAs	CCAs to which the drug is assigned			
Generic Name	The generic name of the medication			
External ID	The ID number used to match an order to the medication entry in the drug library			
Therapeutic Class	Therapeutic class assigned to the medication			
Class ID	The ID for the therapeutic class			

### SapphirePlus CCA Drug Library

This report provides information on all medication entries assigned to a specific CCA.

Hospira MedNet <sup>™</sup> Meds <sup>™</sup> - User Guide g Library Management Reports CCA Setup Mast	r Infuser Setup					
A Drug Library   port Output	r innuser setup				Print	Save to Fie Close H
Drug Library	Infuse	r Type	Da	te Finalized		Library State
User Guide Sapphire 13.x N/A Worksheet						
Rule Set Groups	Dosing Unit	LHL	LSL	USL	UHL	Assigned CCAs
CCA Name: Main Floor						
Generic Name: ACYCLOVIR	External ID:	1701	Therapeutic Class:	ANTIVIRALS (SYSTE	MIC)\1	Class ID: 08:18.00
Displayed Name: ACYCLOVIR	Concent	ration: 500 mg / 10 mL	,	Enable Bolus: No	Ma	ximum Bolus Amount:
Dose Rate Limits - Rate	mL/hr					
Bolus Limits - Amount						Main Floor
Bolus Limits - Time						Mail 11001
Bolus Limits - Dose Rate						
	Therapi	es: Basic (Continuous),	Piggyback (Seconda	ry), Multistep		
Generic Name: AMIODARONE	External ID:	1719 1	Therapeutic Class: A	ANTIARRHYTHMIC A	GENTS\1	Class ID: 24:04.04
Displayed Name: AMIODARON	E Conce	ntration: 50 mg / 3 mI	-	Enable Bolus: No	Ma	ximum Bolus Amount:
Dose Rate Limits - Rate	mg/min					_
Bolus Limits - Amount						Main Floor
Bolus Limits - Time						_
Bolus Limits - Dose Rate						
		es: Basic (Continuous),	Piggyback (Seconda	ry), Multistep		
Generic Name: HEPARIN 25 000		External ID: 1642		utic Class: ANTICOA		Class ID: 20:12.04
Displayed Name: HEPARIN 25 0		ntration: 7500 units / 1		Enable Bolus: Yes		ximum Bolus Amount:
Dose Rate Limits - Rate	units/kg/hr		5	30	45	_
Bolus Limits - Amount	units	5000				Main Floor
Bolus Limits - Time	unite for					-
Bolus Limits - Dose Rate	units/hr	ant Pasia (Continues)	Diamhaols (Saca-4-	cra) Multisten		
	Iherapi	es: Basic (Continuous),	Piggyback (Seconda	ry), Mutistep		
						Page 1 of 1

SapphirePlus				
Medication Entries	Description			
Displayed Name	The medication name that displays on the infuser			
Concentration or Container Volume	Concatenation of medication amount, medication unit, diluent amount, and diluent unit			
Rule Set Groups	The types of rule sets created for the medication: Dose Rate, and Bolus			
Dosing Unit	The dosing unit selected for the medication			
LHL	Lower Hard Limit (cannot be overridden)			
LSL	Lower Soft Limit - the lower limit that can be overridden			
USL	Upper Soft Limit - the upper limit that can be overridden			
UHL	Upper Hard Limit (cannot be overridden)			
Other Settings	Includes Enable Bolus, Bolus Units, Bolus Limits, and Maximum Bolus Amount			
Assigned CCAs	CCAs to which the drug is assigned			
Generic Name	The generic name of the medication			
External ID	The ID number used to match an order to the medication entry in the drug library			
Therapeutic Class	Therapeutic class assigned to the medication entry			
Class ID	The ID number for the therapeutic class			

### SapphirePlus Master Infuser & CCA Settings

This report displays detailed information on all SapphirePlus master infusers and active CCA settings.

M Hospira MedNet™ Meds™ - User Guide							
Drug Library Management Reports CCA Setup Master Infu	user Setup						
Master Infuser & CCA Settings -			Print Save to File Qlose Help				
Report Output							
Next Last							
Drug Library	Infuser Type	Date Finalized	Library State				
User Guide Sapphire 13.x N/A Worksheet							
Master Infuser Settings							
Device-Level Program Lock/Unlock Passcode 7770							
Next Last Page 1 of 2							
Hospira MedNet <sup>™</sup> Meds <sup>™</sup> - User Guide							
rug Library Management Reports CCA Setup Master Infu	iser Setup						
Master Infuser & CCA Settings 🔹			Print Save to File Qose Help				
Report Output							
	First	Previous					
CCA Settings			]				
CCA Name: 1	Main Floor	Service Line: Mult	iple service lines				
Alarm Settings	Item		Value				
Distal Occlusion Pressure	Default Settings		6 psi				
Alarm Volume	Default Level	1	Maximum				
Other Infuser Parameters	Item		Value				
Other Settings	Delayed Start	1	Enabled				
Delivery at End of Infusion	Delivery at End of Infu	ion	KVO				
	Default KVO Rate		1 mL/hr				
Other	Maximum Volumetric F	tate	999 mL/hr				
	Nearing End of Infusion	Alarm	Off				
Brightness	Default Level		On				
Inactivity Callback	Callback Alarm		2 minutes				
Key Press Volume	Default Level	1	Maximum				
First )	Previous		Page 2 of 2				
1							
t							
brary Name: User Guide	Infuser	Sapphire 13.x Status: Worksheet Modified:	Jul 14 20 14 02:53PM Mode: Edit User: mednet_admin				

SapphirePlus				
Field	Description			
Device-level Program Lock/ Unlock Passcode	Device-level program Lock/Unlock passcode setting			
United Fasseule	The default value is "Set." "Set" indicates that the value has been set in the master infuser setup. The passcode is not displayed			
	Next Page Detail <sup>1</sup>			
CCA Name	Name of CCA			
Service Line	Name of service line			
Distal Occlusion Pressure	Default and maximum setting			
Alarm Volume	Default level			
Other Settings	Delayed start			
Delivery at End of Infusion	Delivery at End of Infusion (KVO or none), and default KVO rate, if KVO was selected			
Other	Maximum volumetric rate, and nearing end of infusion alarm			
Brightness	Default level			
Inactivity Callback	Callback alarm after a period of inactivity			
Key Press Volume	Default level			
<sup>1</sup> Begins on page two and conta	ins information for each CCA			

## **Printing Reports**

#### To print a report:

1. Click the **Reports** tab.

M Hospira MedNet™	Meds™ - User Guide
Drug Library Manageme	en Reports CCA Setup Master Infuser Setup
Choose a report	
Report Output	

2. Select the report to print from the drop-down list.

M Hospira MedNet™ Meds™ - User Guide						
Drug Library Management Reports	CCA Setup	Master Infuser Setup				
Choose a report 👻						
Choose a report	Ì					
Drug Library						
CCA Drug Library						
Master Infuser & CCA Settings						
	-					
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

The report displays.

3. Click Print.

Hospira MedNet <sup>®</sup> Meds <sup>®</sup> - User Guide						
Drug Library Management Reports CCA Setup Master Infuser Setup						
Drug Lbrary   Print Saye to File	<u>C</u> lose <u>H</u> elp					
Report Output						
	man					

The Print menu displays. Make your selection.

4. Click Print.

#### To Save a Report

- 1. Select a report that you want to save.
- 2. Click Save to File.

🛃 Hospira MedNet <sup>™</sup> Meds <sup>™</sup> - User Guide	
Drug Library Management Reports CCA Setup Master Infuser Setup	
Drug Library	Print Saye to File Gose Help
Report Output	

3. Navigate to a location of your choice.

Save to File	I THE I THE I THE	x
Look <u>i</u> n:	📔 Hospira MedNet Meds 6. 1 🔹 🍺 📴 🛄 🗸	
Recent Items	dependencies     docs     Temp     Uninstall Hospira MedNet(TM) Meds(TM) 6.1	
Desktop	∉ License_en	
My Documents		
Computer		
	File name:	ave
Network	Files of type: HTML Files (*.html)	incel

- 4. Type in a File name.
- 5. Click **Save** and the report will be saved in .html format.

#### Notes:

# **Chapter 8: Setting Up CCAs**

## **Overview**

Before you can assign medication entries to a clinical care area (CCA), you need to add a CCA to your Worksheet. Use the CCA Setup view to add a CCA to the Worksheet. You can create a maximum of 18 CCAs for the Plum A+ 13.4x infuser, and 18 CCAs for the LifeCare PCA. Hospira MedNet Meds also supports SapphirePlus and the Plum 360 that can accommodate up to 40 CCAs. (See the Hospira MedNet Software Device Compatibility Matrix to determine the availability of the Plum version. The matrix is available through the Advanced Knowledge Center.)

The CCA Setup view allows you to:

- Create a new CCA and assign a Service Line to it
- Make changes to an existing CCA name and Service Line
- Remove an existing CCA
- View CCA names and Service Lines
- Arrange the order in which the CCA names display on the infuser
- Set up CCA-specific infuser settings

To display the CCA Setup view, open a Worksheet for editing and click the **CCA Setup** tab. (For instructions on opening a Worksheet, see **Chapter 5: The Library Directory**, on page 27.)

🗹 Hospira MedNet™ Meds™ - User Guide PCA Library			
Drug Library Management   Reports   CCA Setup   Master Infu	ser Setup   Protocols		
Add Edit Delete View	CCA Settings	Arrange CCA Names	<u>C</u> lose <u>H</u> elp
Current CCA Names			
CCA Service Line	Notes		
BH Behavioral health			
ICU ICU - medical			
2 South Pain Management			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

**Note:** If you try to add a medication to a CCA that already has the maximum allowable medication entries, you will receive an error message. You will need to delete a medication from the CCA then add a new medication to the CCA in the Drug Library Management window.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Service Lines**

Service Lines are used in reports to aggregate data across multiple CCAs or facilities. Each CCA is mapped to a Service Line. For example, a service line called **Surgical - adult** may be used to examine data from the CCAs Four West, Five North, and Five East in a single hospital.

The following Service Lines are available for use.

**Note:** You cannot edit or change the contents of the Service Line list.

- Ambulatory
- Anesthesia
- Behavioral health
- Bone marrow transplant
- Burn unit
- Ear, Nose & Throat
- Emergency services
- Endocrinology
- Eye
- Geriatric
- Hematology
- ICU cardiac
- ICU general
- ICU medical
- ICU neonatal
- ICU pediatrics
- ICU surgical
- Labor & Delivery
- Medicine adult
- Medicine neonatal
- Medicine pediatric

- Multiple service line
- Obstetrics/gynecology
- Oncology adult
- Oncology pediatric
- Orthopedics
- Other specialty
- Outpatient Surgery
- Pain Management
- Rehabilitation
- Renal
- Short Stay
- Skilled nursing
- Special Procedures
- Surgical adult
- Surgical cardiovascular
- Surgical pediatric
- Telemetry
- Transfusion Center
- Transplant
- Trauma
- Urology

## **Create a New CCA**

- 1. Click the CCA Setup tab.
- 2. Click Add.

🖬 Hospira MedNet™ Meds™ - Us	
Drug Library Management Reports	CCA Setup Master Infuser Setup
Add Edit Delete	View
CCA	Service Line
BH	Behavioral health
ICU	ICU - medical
2 South	Pain Management

- 3. Enter the name of the new CCA.
- **Note:** Displayed Names and CCA Names do not allow either commas (,) or double-quotes ("). The number of characters allowed in a CCA name varies for each type of infuser; Plum maximum: 29; LifeCare PCA maximum: 16; and SapphirePlus maximum: 15. You cannot exceed the maximum characters.

🗹 Add CCA Name and Notes	×
CCA Name:	
Service Line: Select	-
Exclude from clinical reports	
Notes	
Save & Add Another Save & Close Cancel	

- 4. Select a Service Line for your CCA from the drop-down list.
- 5. To exclude the CCA from the reports, place a check mark in the box next to **Exclude from clinical reports**.
- **Note:** Clinical reports include all reports except Asset Tracker, Asset Utilization, Event/Alarm Log, Infuser Status, and Software Download.
  - 6. Enter a Note if desired.
  - 7. Click Save & Add Another or Save & Close.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## Edit a CCA

- 1. Click the CCA Setup tab.
- 2. Select the CCA you want to change.

Drug Library Management	Reports	CCA Setup	Master Infus	ser Setup
Add Edit	<u>D</u> elete	View		
CCA		Servio	e Line	
BH	E	ehavioral h	ealth	
ICU	I	CU - medica	l	
2 South	F	ain Manage	ment	

- 3. Click Edit.
- 4. Edit the CCA Name, Service Line, and Notes if desired.

dit CCA Name and Notes	×
CCA Name: 5 West	
Service Line: Medicine - adult	-
Exclude from clinical reports	
_ Notes	
Save & Close Cancel	

5. Click Save & Edit Next or Save & Close.

### View a CCA

- 1. Click the CCA Setup tab.
- 2. Select the CCA you want to view.

Drug Library Management   Re	ports CCA Setup Master Infuser Setup
<u>A</u> dd <u>E</u> dit <u>[</u>	Qelete View
Current CCA Names	
CCA	Service Line
BH	Behavioral health
ICU	ICU - medical
2 South	Pain Management

- 3. Click View.
- 4. When you are finished viewing, click View Next or Close.

View CCA Name and Notes	×
CCA Name: 5 West	
Service Line: Medicine - adult	~
Exclude from clinical reports	
_ Notes	
	-
Vjew Next	

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Delete a CCA**

- 1. Click the CCA Setup tab.
- 2. Select the CCA you want to delete.

Orug Library Management	Reports CCA Setup Master Infuser Setup
Add Edit	Delete View
CCA	Service Line
BH	Behavioral health
ICU	ICU - medical
2 South	Pain Management

- 3. Click Delete.
- 4. A pop-up window appears to confirm the deletion.
- 5. Click Delete.

Delete CCA Name and Notes
CCA Name: 2 North
Service Line: Burn unit
Exclude from dinical reports
_Notes

The CCA is permanently deleted from the Worksheet.

**Note:** Medication entries assigned to the deleted CCA will remain in the Master Drug Formulary and any other CCAs to which they were assigned.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Change the Display Order of CCA Names**

1. Click the CCA Setup tab.

d Hospira MedNet™ Meds™ - Us	er Guide Plum A+		
Drug Library Management Reports	CCA Setup Master Infus	ser Setup	
Add Edit Delete	View	CCA Settings Arrange CCA Names	≯
Current CCA Names			
CCA	Service Line	Notes	
SICU	ICU - surgical		
MICU	ICU - medical		
CV	Telemetry		
ER	Emergency services		
5 West	Medicine - adult		_

- 2. Click Arrange CCA Names.
- 3. Select the CCA names you want to move.
- 4. Click Move Up and Move Down to reorder the list as desired.
- 5. Click Save when you are satisfied with the display order.

			Move Up
CCA	Service Line	Notes	Move Down
SICU	ICU - surgical		Move Down
MICU	ICU - medical		
CV	Telemetry		
ER	Emergency services		
5 West	Medicine - adult		
2 North	Medicine - adult		

Helpful Hint: You may select multiple CCAs by selecting the first CCA you want to move, and then holding the shift key while clicking the last CCA you want to move.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## Setting Up a Plum 360

**Note:** Only users with the appropriate login privileges are able to edit CCA infuser settings.

Each CCA is associated with specific infuser settings. For Plum 360 infusers that can support 40 CCAs, the following settings are supported: Patient Limits consisting of minimum and maximum body surface area (BSA); minimum and maximum patient height and weight; Alarm Settings for the default occlusion pressure; and Other Infuser Parameters relating to start and standby, and dose rates.

Note: The CCA settings apply to all medications in the CCA.

The **Body Surface Area** setting allows you to set a minimum to maximum range for the specific CCA.

The **Minimum Patient Height** setting allows you to set the minimum patient height allowed in the CCA.

The **Maximum Patient Height** setting allows you to set the maximum patient height allowed in the CCA.

The **Minimum Patient Weight** setting allows you to set the minimum patient weight allowed in the CCA.

The **Maximum Patient Weight** setting allows you to set the maximum patient weight allowed in the CCA.

The **Default Occlusion Pressure** setting allows you to select the pressure at which the infuser will sound the distal occlusion alarm. This setting is used as the default setting for the selected CCA and can be changed when programming the infuser.

The **Distal Occlusion Pressure Auto-Reset** setting allows you to set the number of times the infuser will resume an infusion automatically if a distal occlusion is cleared within 60 seconds of detection. If you leave the Auto-Reset at zero, the default setting, occlusion alarms will not be automatically reset.

The **Delayed Start** setting allows you to select this option in the CCA and in turn allows that option for the infuser.

The **Standby** setting allows you to select this option in the CCA and in turn allows that option for the infuser.

The Maximum Dose Rate is the maximum delivery rate allowed in the CCA.

**Note:** The Minimum Patient Weight, Maximum Patient Weight, and Maximum Dose Rate cannot be changed by the clinician when programming the infuser.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### Following are the default CCA infuser settings:

Minimum BSA 0.0	012 (m <sup>2</sup> )
Maximum BSA 7.0	07 (m <sup>2</sup> )
Minimum Patient Height 7.8	5 cm
Maximum Patient Height 30	5 cm
Minimum Patient Weight 0.4	1 kg
Maximum Patient Weight 50	0 kg
Default Occlusion Pressure 6 p	osi (310 mmHg)
Distal Occlusion Pressure Auto-Reset 0	
Maximum Dose Rate 99	9 mL/hr
Delayed Start Er	nabled
Standby Er	nabled

Note: When you create a new CCA, it contains the default infuser settings until you change them.

#### To set up CCA settings:

1. Display the CCA Setup view by opening a Worksheet for editing and clicking the CCA Setup tab (for instructions on opening a Worksheet, see Chapter 5: The Library Directory on page 27).

🔮 Hospira MedNet™ Meds™ - Use	er Guide Plum A+			
Drug Library Management Reports	CCA Setup Master Infus	er Setup		
Add Edit Delete	View	CCA <u>S</u> ettings	Arrange CCA Names	<u></u>
CCA	▲ Service Line	Notes		
ER E	Emergency services			
MICU	ICU - medical			
SICU	ICU - surgical			
5 West	Medicine - adult			
2 North	Medicine - adult			
CV	Telemetry		~~~ <u>~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

2. Select a CCA from the CCA setup view.

		3
Drug Library Management Reports	CCA Setup aster Infuser Setup	
Add Edit Delete	e <u>Vi</u> ew CCA <u>Settings</u>	
CCA	Service Line	
MICU	ICU - medical	
SICU	ICU - surgical	
5 West	Medicine - adult	
2 North	Medicine - adult	
CV	Telemetry	
	Drug Library Management Report	Current CCA Names       CCA

3. Click the CCA Settings button.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 4. Select the **Patient Limits** tab and edit the following information:
  - Minimum BSA (0.012 to 7.07)
  - Maximum BSA (0.012 to 7.07)
  - Minimum Patient Height (7.5 to 305 cm)
  - Maximum Patient Height (7.5 to 305 cm)
  - Minimum Patient Weight (0.1 to 500 kg)
  - Maximum Patient Weight (0.1 to 500 kg)

CCA Settings	x
CCA: ICU	
Patient Limits Alarm Settings Other Infuser Parameters	_,
-BSA (m²)	
Minimum: 0.012 [0.012 - 7.07]	
Maximum: 7.07 [0.012 - 7.07]	
Patient Height (cm)	
Minimum: 7.5 [7.5 - 305]	
Maximum: 305 [7.5 - 305]	
Patient Weight (kg)	
Minimum: 0.1 [0.1 - 500]	
Maximum: 500 [0.1 - 500]	
<u>R</u> estore Default Values	
Save & Continue Save & Close Cancel Help	

- 5. Select the Alarm Settings tab and edit the following information:
  - Distal Occlusion Pressure (1 psi to 15 psi or 52 mmHg to 776 mmHg)
  - **Distal Occlusion Auto-Reset** (0 to 10)

CCA Settings	×
CCA: ICU	
Patient Limits Alarm Settings Other Infuser Parameters	
Distal Occlusion Pressure (psi)	
Default Setting: 6 [1 - 15]	
Distal Occlusion Pressure Auto-Reset	
This is the number of times the infuser will resume infusion automatically if a distal occlusion is cleared within 60 seconds of detection. If Auto-Reset is zero, occlusion alarms will not be automatically reset.	
Distal Occlusion Auto-Reset: 0 [0 - 10]	
Restore Default Values	
Save & Continue Save & Close Cancel Hel	p

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

6. Select the Other Infuser Parameters tab.

CCA Settings	×
CCA: ICU	
Patient Limits Alarm Settings Other Infuser Paramete	rs
Checked options will be enabled.	
✓ Delayed Start	
V Standby	
Maximum Dose Rate (mL/hr)	
Maximum Dose Rate: 999 [0.1 - 999]	
<u>R</u> estore Default Values	
Save & Continue Save & Close Gancel	Help

- 7. Select to allow the Delayed Start and Standby settings (recommended).
- 8. Edit the Maximum Dose Rate.
- 9. Click Save & Continue or Save & Close.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## Setting Up a Plum A+ CCA

**Note:** Only users with the appropriate log in privileges are able to edit CCA infuser settings.

Each CCA is associated with specific infuser settings. These settings include: the default occlusion pressure, minimum and maximum patient weight, and maximum dose rate settings.

**Note:** The CCA settings apply to all medications in the CCA.

The **Default Occlusion Pressure** setting allows you to select the pressure at which the infuser will sound the distal occlusion alarm. This setting is used as the default setting for the selected CCA and can be changed when programming the infuser.

The **Minimum Patient Weight** setting allows you to set the minimum patient weight allowed in the CCA.

The **Maximum Patient Weight** setting allows you to set the maximum patient weight allowed in the CCA.

The Maximum Dose Rate is the maximum delivery rate allowed in the CCA.

**Note:** The Minimum Patient Weight, Maximum Patient Weight, and Maximum Dose Rate cannot be changed by the clinician when programming the infuser.

Following are the default CCA infuser settings:

6 psi (310 mmHg)
0.1 kg
500 kg
999 mL/hr

Note: When you create a new CCA, it contains the default infuser settings until you change them.

#### To set up the Plum A+ CCA settings:

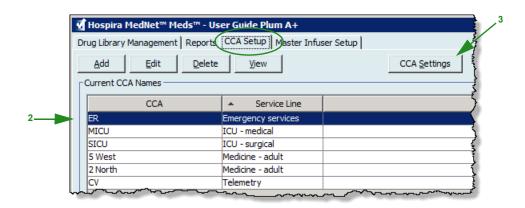
1. Display the CCA Setup view by opening a Worksheet for editing and clicking the CCA Setup tab (for instructions on opening a Worksheet, see Chapter 5: The Library Directory on page 27).

or Hospira MedNet™ Meds™ - Us	er Guide Plum A+			_ 🗆 Þ
Drug Library Management   Reports	CCA Setup Master Infus	er Setup		
Add Edit Delete	View	CCA Settings	Arrange CCA Names	<u>Ç</u> lose <u>H</u> elp
Current CCA Names				
CCA	<ul> <li>Service Line</li> </ul>	Notes		
ER	Emergency services			
	ICU - medical			
_STAL	icit-moisid			

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

2. Select a CCA from the CCA setup view.



- 3. Click the CCA Settings button.
- 4. Edit the following information:
  - **Default Occlusion Pressure** (1 psi to 15 psi or 52 to 776 mmHg). The Default Occlusion Pressure is the threshold for the distal occlusion alarm.
- **Note:** If your institution uses Plum A+ HB Hyperbaric infusers (version 13.5), refer to the infuser's System Operating Manual for this model's expanded default occlusion pressure range. The clinician is able to set the default occlusion pressure value while programming the infuser for hyperbaric use.
  - Minimum Patient Weight (0.1 to 500 kg)
  - Maximum Patient Weight (0.1 to 500 kg)
  - Maximum Dose Rate (0.1 to 999 mL/hr)

CCA 9	ettings	×
ССА	: ICU	
(	Default Occlusion Pressure (psi): 3	
	Minimum Patient Weight (kg): 0.1 [0.1 - 500]	
	Maximum Patient Weight (kg): 500 [0.1 - 500]	
	Maximum Dose Rate (mL/hr): 999 [0.1 - 999]	
	Save Cancel Help	

5. Click **Save** to save the settings in the selected CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## Setting Up a LifeCare PCA CCA

Note: Only users with the appropriate login privileges are able to edit CCA infuser settings.

The only CCA-specific infuser setting for the LifeCare PCA is the Lockout Interval. The lockout interval allows you to define the minimum and maximum lockout period between PCA doses. The interval you set will apply to all medication entries in the CCA.

The default values for the LifeCare PCA are:

- Minimum Default Lockout Interval (5 minutes)
- Maximum Default Lockout Interval (120 minutes)

Note: When you create a new CCA, it contains the default infuser settings until you change them.

Note: The limits on the lockout interval cannot be changed when programming the infuser.

#### To set up the LifeCare PCA CCA:

1. Display the CCA Setup view by opening a Worksheet for editing and clicking the CCA Setup tab (for instructions on opening a Worksheet, see Chapter 5: The Library Directory on page 27).

🗹 Hospira MedNet™ Meds™ - User Guide PC/	A Library		
Drug Library Management   Reports   CCA Setup	Master Infuser Setup   Protocols		
Add Edit Delete View	CCA Settings	Arrange CCA Names	<u>C</u> lose <u>H</u> elp
CCA Service	e Line Not	es	
BH Behavioral he	alth		
ICU - medical			
2 South Pain Manager			

2. Select a CCA from the CCA Setup view.

¶Hospira MedNet™ Meds"	- User Guide PCA Library	
Drug Library Management   Rep	oorts CCA Setup Master Infus	er Setup Protocols
Add Edit D	elete <u>V</u> iew	CCA <u>S</u> ettings
CCA	Service Line	
ВН	Behavioral health	
ICU	ICU - medical	

3. Click the CCA Settings button.

CCA Settings
CCA: ICU
Minimum Lockout Interval (minutes): 🛐 [5 - 120]
Maximum Lockout Interval (minutes): 120 [5 - 120]
Save Cancel Help

- 4. Edit the minimum and maximum lockout intervals (5–120 minutes) on the pop-up.
- 5. Click Save.

## Setting Up a SapphirePlus CCA

Note: Only users with the appropriate login privileges are able to edit CCA infuser settings.

Each CCA is associated with specific infuser settings, including alarm capabilities for distal occlusion and air-in-line. Infuser parameters can also be set such as delivery at end of infusion.

Note: The CCA settings apply to all medications in the CCA.

The default CCA infuser settings are: Alarm Settings and Other Infuser Parameters. When you create a CCA, the default settings are displayed.

**Note:** Settings with the term "default" before them in the above list can be changed on the infuser by the clinician programming the device, or an authorized technician. To see all functions that can be adjusted on the infuser, refer to the SapphirePlus operating manual.

#### To set up the SapphirePlus CCA:

- 1. Display the CCA Setup view by opening a Worksheet for editing and clicking the CCA Setup tab (for instructions on opening a Worksheet, see **Chapter 5: The Library Directory**, on page 27.
- 2. Select a CCA from the CCA Setup view.
- 3. Click the CCA Settings button.

M Hospira MedNet <sup>™</sup> Meds <sup>™</sup> - User Guide Library				
Drug Library Management Reports CCA Setup Master Infuser Setup				
Add Edit Delete View CCA Settings				
CCA	Service Line	Notes		
Emergency	Emergency services			
2 West	Medicine - adult			

CCA settings for the SapphirePlus infuser are arranged in two tabs:

- Alarm Settings
- Other Infuser Parameters

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### **Alarm Settings**

	CCA Settings CCA: e Alarm Settings Other Infuser Parameters	
1	Distal Occlusion Pressure         Displayed Distal Occlusion Pressure Setting Units:	2
	Restore Default Values	
	Save & Continue Save & Close Cancel Help	

- 1. For Distal Occlusion Pressure, do the following:
  - Select the default setting units (psi or mmHg).
  - Select a default setting from the drop-down list (psi can be in 0.5 psi increments; mmHg can be in 25 mmHg increments).
- 2. Select a default setting for the Alarm Volume, either Minimum or Maximum.
- 3. For Air-in-line, select Single Bubble Size and Accumulated (Bubble Size and/ or Threshold).
  - Single Bubble Size: The minimum bubble size to alarm for a single bubble
  - Accumulated Bubble Size: the size of the bubble that when detected will be added to the accumulated threshold. Only bubbles from the selected size and above will be added to the threshold
  - Accumulated Threshold: The threshold from which the pump will alarm
- **Note:** Single Bubble Size and Accumulated Threshold cannot be both OFF. At least one of the selections must be ON. An accumulated air-in-line alarm can only occur if enough air is accumulated over a 15-minute period.

### **Examples**:

With the following selected:

Single bubble = 500 mcL Accumulated Bubble Size = 100 mcL Accumulated Threshold = 500 mcL

- a. A single bubble of 500 mcL is detected. An air-in-line alarm is generated.
- b. A bubble of 50 mcL is detected, no alarm would be generated as it is not equal to or greater than the configured Single Bubble Size.

Additionally, nothing would be added to the Accumulated Threshold since the bubble size is less than the selected 100 mcL.

- c. A bubble of 100 mcL is detected, this would not generate an alarm since the bubble size is less than 500 mcL. However, 100 mcL would be added to the Accumulated Threshold.
- d. A bubble size of 400 mcL is detected. This would not trigger a Single Bubble Size alarm since it is less than the 500 mcL bubble size selected. However, since the bubble is greater than the selected Accumulated Bubble Size of 100 mcL, it would be added to the Threshold which would then total 500 mcL (the bubble size of 400 mcL + the selected 100 mcL). This would trigger an alarm since it met the Accumulated Threshold setting of 500 mcL.
- 4. Click Save & Continue or Save & Close.
- 5. If continuing, select the Other Infuser Parameters tab.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Other Infuser Parameters**

ſ	CCA Settings
	CCA: 2 West
	Alarm Settings Other Infuser Parameters
	Other Settings Other           Other Settings         Other           Delayed Start         Maximum Volumetric Rate: 999         [0.1 - 999 mL/hr]
1	Delivery at End of Infusion
	O None Brightness
2	KVO     Default Level:
	Default KVO Rate:         ● On ○ Partial ○ Off           1         [0.1 - 20 mL/hr]
	Inactivity Callback (Pump Unattended)
	Callback Alarm: 2 minutes
	Key Press Volume
	Default Level:
3	🔘 Off 💮 Minimum 🔘 Maximum
	Restore Default Values
	Save & Continue Save & Close Cancel Help

- 1. At Other Settings, accept the checked default Delayed Start or uncheck the default.
- 2. For **Delivery at End of Infusion**, either select **None** or **KVO**. The Default KVO Rate is between 0.1 and 20 mL/hr).
- 3. For Other:
  - a. Enter a Maximum Volumetric Rate.
  - b. From the drop-down list select the time interval to alert the user that an infusion is nearly complete. Choices are **Off**, **1 minute**, **3 minutes**, **5 minutes** and **10 minutes**.
- **Note:** For a multistep infusion, the **Nearing End of Infusion Alarm** occurs x minutes before treatment ends (if x = 10 and there are 7 steps of 5 minutes each, the message will appear after 25 minutes).

For a continuous/secondary infusion, the **Nearing End of Infusion Alarm** occurs x minutes before the primary and secondary will be ended (if x = 10 and primary is 1 minute and secondary is 30 minutes the message will appear after 21 minutes).

- 4. Select the default Brightness level. Choices are On, Partial and Off.
- 5. For Inactivity Callback (Pump Unattended), select the notification interval for period of no activity from the drop-down list. Choices are 2 minutes, 5 minutes and 10 minutes.
- 6. Select the default Key Press Volume level.
- Note: You can Restore Default Values by clicking on that button.
  - 7. Click Save & Close.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Chapter 9: Plum A+, and Plum 360 Medication Entries

# Overview

In this chapter, you will learn how to define clinical decision rules for medications in the Plum A+ drug library. Hospira MedNet Meds software enables you to customize dose limits for medications used in drug libraries. You can customize clinical decision rules for up to the maximum number of clinical care areas (CCAs) in the hospital, and 150 (Plum A+) or 400 medication entries (Plum 360) in each CCA, depending on your licensing.

Medication entries can be created with one of three types of rule sets, described below.

- Full Rule Set: Medication entries configured with a medication name, a complete or partial concentration, a specific dosing unit, and corresponding dose rate limits.
- Limited Rule Set: Medication entries configured with a medication name, optional diluent volume, and rate limits.
- Label Only Rule Set: Medication entries configured with a medication name, complete or partial concentration, and a specific dosing unit.

The display of the medication in the Drug List and the programming sequence for the clinician on the infuser will vary depending on the type of rule set defined in the drug library.

**Note:** The Clinical Use field (Plum 360 only) is an optional field and can be left blank. The default value of Clinical Use can be updated in the Master Infuser Setup.

# Part 1: Plum 360

# **Defining Rule Sets**

### Full Rule Set

A Full rule set allows you to enter a complete concentration (for example, 250 mg/500 mL) or partial concentration (for example, 250 mg/\_mL, \_mg/500 mL or, \_mg/\_mL). Creating a medication entry for the standard concentrations of any medication reduces the number of programming steps on the infuser for the clinician. At least one dosing limit value **must** be entered for each Full rule set.

Source L	List: Add Rule Set			×
<b>⊢</b> Medic	ation and Concentration			
	Generic Nan	<b>ne</b> (External ID) (Strength / Volum	e) {Dosage Form}:	
DOPa	mine (EXT_ID_037) {Description_1_In	clude}		<u>S</u> elect
	Displayed Name:	Therapeutic Class:	Class ID:	
DOPa	mine	Class_Descr_37	class_37	
	Summary: DOPamine 200	mg / 5 mL for Clinical Use "'	'Dosed in mL/hr	
Full	Rule Sets:			
	centration — Medication Amount: Medication U 0 mg	nit: Diluent Amount: mL	Piggyback delivery allowed	iis infusion
	Use (optional) Clinical Use is blank, it will be updated w	ith the value in the Default Clinical I	Jse from the Master Infuser Setup.	
	Dosing Unit: LHL:	LSL:	USL: UHL:	
	Save & Add Another Dosing Unit	Save & Add Another Rule Set	Save & Close Cancel	Help

Leaving the medication or diluent amounts blank allows the clinician to enter a non-standard concentration at the time of programming. Full rule sets defined with a partial concentration will require the clinician to enter the concentration values when the dosing units are not mL/hr. When the dosing units are mL/hr, you do not have to enter concentration information.

## **Limited Rule Set**

A Limited rule set does not require a concentration to be defined. At least one dosing limit value must be entered for each Limited rule set. The Container Volume field is optional. When programming the infuser for a medication with a Limited rule set, the clinician enters only the rate, volume to be infused (VTBI), and duration.

Source List: Add Rule Set			×
Generic Name	(External ID) (Strength / Volun	ne) {Dosage Form}:	
DOPAMINE (1044) (200 MG / 5 ML) {VIAL}			Select
Displayed Name:	Therapeutic Class:	Class I	D:
DOPAMINE	BETA-ADRENERGIC AGONIS	TS\1 12:12.08	
Summary: DOPAMINE mL	Dosed in mL/hr		
Rule Sets:			
Limited -			
Container Volume: mL			
Dose Limits			
Dosing Unit: LHL:	LSL:	USL:	UHL:
mL/hr 👻 1			
Save & Add Anot	her Save & Close	Cancel <u>H</u> elp	

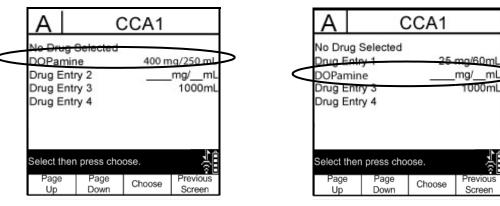
### Label Only Rule Set

A Label Only rule set allows the clinician to see the medication name displayed on the infuser. There are no dosing limits associated with a Label Only rule set. The clinician selects the dosing units during programming. If the dosing units are not mL/hr, the clinician also enters the concentration values.

Source List: Add Rule Set			×
Generic Nan	ne (External ID) (Strength / Volume)	{Dosage Form}:	
VASOPRESSIN (2530) (20 UNITS / 1 ML) {*	*}		Select
Displayed Name:	Therapeutic Class:	Class ID:	
VASOPRESSIN	PITUITARY	68:28.00	
Summary: VASOPRESSIN			
Rule Sets:			
Label Only 🗸			
Sava & Add A	nother Caus & Class		
S <u>a</u> ve & Add A	nother Save & Close Car		

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

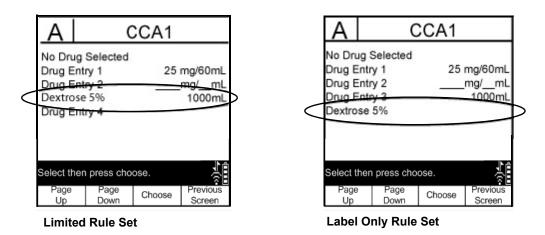
Each type of rule set will create a different display for the medication in the Drug List on the infuser. The pictures below provides examples of how the Drug List will look for each type.



Full Rule Set - Complete Concentration

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Full Rule Set - Partial Concentration



You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA are automatically added to the Master Drug Formulary.

Within a CCA, no two medication entries may have exactly the same External ID and Concentration. Also, no two medication entries may have exactly the same Displayed Name and Concentration.

Within a CCA, a medication entry with a Displayed Name and a Concentration can have up to four Clinical Uses. Each Clinical Use can have up to four dosing units or a total of 16 possible dosing units for one medication in one CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

In the Master Drug Formulary, two medication entries may have the same display name, medication amount, medication unit, diluent amount, and dosing units, as long as one or more of the following limits are different:

- Lower soft limit (LSL)
- Lower hard limit (LHL)
- Upper soft limit (USL)
- Upper hard limit (UHL)

# **Setting Dose Rate Limits**

Hospira MedNet Meds allows you to define dose rate limits for both primary and secondary infusions. It is important that you understand how the dose rate limits function so please read this section carefully.

You can define upper and lower soft and hard limits as part of the rule set for each medication entry that you create in the library. As you configure the limits, the software enforces the following rule:

Lower Hard Limit (LHL) < Lower Soft Limit (LSL) <= Upper Soft Limit (USL) < Upper Hard Limit (UHL)

### **Soft Limits**

*Soft Limits* are dose rate limits that can be overridden when programming the infuser. When a value entered on the infuser is lower than the lower soft limit or higher than the upper soft limit, the infuser displays a soft limit override confirmation message. The infuser records soft limit alerts and the user's response to the alert in its history logs.

For example, if the upper soft limit is set to 15 mL/hr and the clinician enters 16 mL/hr, the infuser will display a soft limit override alert. This alert notifies the clinician that the entry is outside the range of the soft limits set for that medication entry. The clinician can choose to continue programming using the override, or cancel the override and edit the value. Both the override and edit events are recorded separately in the infuser's history log.

### **Hard Limits**

*Hard limits* are dose rate limits that cannot be overridden; the infuser cannot be programmed with a rate that is lower than the lower hard limit or higher than the upper hard limit.

**Note:** The actual patient weight is not entered until the clinician programs the infuser. Therefore, Hospira MedNet Meds software cannot verify the validity of a lower limit when entering a weight-based medication entry. The infuser performs the final check when the clinician programs the infuser.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Medication Entry Rules and Conventions**

The Hospira MedNet Meds software uses the following conventions for Plum A+ medication entries:

- Full or Limited rule sets require at least one hard or soft limit.
- You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA Target List are automatically added to the Master Drug Formulary List.
- "Validity" messages appear in red at the bottom of the Rule Set window. When you enter a value that is not allowed, the message specifies the defined range for the field, or the reason the value is not permitted.
- You cannot use the following characters in the medication name: comma (,), less than (<), greater than (>), single quotes ('), double quotes (''), and ampersand (&).
- Once you select a medication unit, the dosing unit field will display only the enabled unit type.
- The software prohibits invalid numeric entries and signals such with an audible "beep."
- You may use the vertical and horizontal scroll bars to navigate to an entry.
- If you do not select or populate a required field, an error message appears.
- When you highlight an entry on the Drug Library Management list view, buttons or features that are not allowed appear as "grayed" or disabled.
- When you add a new medication in the Generic Name field of the rule set window, you may search for a medication by typing the first few characters of its generic name. The drop-down list will navigate to show any matching medications.

## **Medication Rule Set**

The Rule Set window shown here is used to configure a medication entry for the Plum A+ drug library.

s	Source List: Add Rule Set			×
	rMedication and Concentration			
	Generic Name	e (External ID) (Strength / Volum	ne) {Dosage Form}:	
	DOPamine (EXT_ID_037) {Description_1_Incl	ude}		<u>S</u> elect
	Displayed Name:	Therapeutic Class:	Class ID:	
	DOPamine	Class_Descr_37	class_37	
	Summary: DOPamine 200 n	ng / 5 mL for Clinical Use "	" Dosed in mL/hr	
	Rule Sets: Full Concentration Medication Amount: Medication Un 200 mg	it: Diluent Amount: mL	Piggyback delivery allowed     Allow piggyback to interrupt th	sis influcion
	Clinical Use (optional)	P		
	If the Clinical Use is blank, it will be updated wit	h the value in the Default Clinical	Use from the Master Infuser Setup.	
	Dose Limits			
	Dosing Unit: LHL:	LSL:	USL: UHL:	
	Save & A <u>d</u> d Another Dosing Unit	Save & Add Another Rule Set	Save & Close <u>C</u> ancel	Help

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Rule Set Fields**

The following table lists the fields, a brief description, and allowed value range for the infuser.

Each medication entry must have a generic name and a displayed name; you cannot save a medication entry without a name in these fields. The number of characters in the displayed name is determined by how it is displayed on the infuser's screen. Depending on character width, the maximum number of characters allowed in a displayed name can vary from 17 to 29.

To avoid potential confusion when creating medication entries, use only the medication name in the **Displayed Name** field and ensure that the External ID is identical to the External ID used in your institution's formulary. Do not include the diluent as part of the medication name.

Parameter	Description	Allowable Range
Generic Name	This is the medication name from your Medication List. It is selected from the drop-down list and displays the External ID (the hospital's identifier for a medication). Strength/Volume and Dosage Form display only if part of your Medication List.	Not editable in the Rule Set
Displayed Name	This is the name that will be displayed on the infuser.	<ul> <li>Varies depending on the character width</li> <li>Cannot be blank</li> <li>Caution: You cannot use the following characters in the displayed name: comma (,), less than (&lt;), greater than (&gt;), single quotes ('), double quotes ("), and ampersand (&amp;).</li> <li>Note: The display font changes on the Plum A+ infuser for lengthy displayed names.</li> </ul>
Therapeutic Class	The therapeutic class assigned to the medication entries.	Not editable in the Rule Set
Class ID	The ID number for the therapeutic class assigned to the medication entry.	Not editable in the Rule Set
Medication Amount	Allows you to enter the medication amount in the units selected. The combination of medication amount, medication unit, and diluent amount creates the medication's concentration.	<ul> <li>For medication amounts in mcg, mg, grams, mEq, million units, or mmol:</li> <li>0.1–9999 and "Blank"</li> <li>For medication amounts in units:</li> <li>0.1–99999999 and "Blank"</li> </ul>
Medication Unit	Allows you to select the unit of measure for your medication amount.	mcg, mg, grams, mEq, Million Units, mmol and units

Parameter	Description	Allowable Range
Diluent Amount	Allows you to set the diluent amount associated with the medication entry. The diluent amount will vary depending on the container size, overfill, and volume of added solution.	<ul> <li>0.1–9999 and "Blank"</li> </ul>
Piggyback delivery allowed	Allows you to enable a piggyback infusion.	Checked to enable or Unchecked (does not allow the functionality)
Allow piggyback to interrupt this infusion	Allows you to configure whether this medication can be interrupted by a piggyback infusion.	Checked to enable or Unchecked (does not allow the functionality)

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Parameter	Description	Allowable Dense
Parameter	Description	Allowable Range
LHL, LSL, USL, UHL	Lower hard limit, lower soft limit, upper soft limit, upper hard limit.	The units for the soft and hard limits are the same as the dosing units selected in the medication rule set.
	Allows you to set the upper and/or lower dose rate limits	For the grams family:
	for the selected medication.	Range: 0.001-9.999 use increments of 0.001 Range: 100-999* use increments of 1
		For the liters family:
		Range: 0.001-9.999 use increments of 0.001 Range: 10.00-99.99 use increments of 0.01 Range: 100-1000 use increments of 1
		For the mEq family:
		Range: 0.001-9.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999* use increments of 1
		For the mL/hr family:
		Range: 0.1-99.9 in increments of 0.1 Range: 100-999 use increments of 1
		For the mL family:
		Range: 0.001-9.999 use increments of 0.001 Range: 10.0-99.99 use increments of 0.01 Range: 100-1000 use increments of 1
		For the mmol family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999 use increments of 1
		For the Units family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999999999 use increments of 1
		For the Million Units family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999 use increments of 1
* Some infusers support		omplete details and allowable range

Refer to your infuser's System Operating Manual for complete details and allowable range.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Parameter	Description	Allowable Range
LHL, LSL, USL, UHL	Lower hard limit, lower soft limit, upper soft limit, upper hard limit.	The units for the soft and hard limits are the same as the dosing units selected in the medication rule set.
	Allows you to set the upper and/or lower dose rate limits for the selected medication.	<b>For the grams family:</b> Range: 0.001-9.999 use increments of 0.001 Range: 100-999 use increments of 1
		For the liters family:
		Range: 0.001-9.999 use increments of 0.001 Range: 10.00-99.99 use increments of 0.01 Range: 100-1000 use increments of 1
		For the mEq family:
		Range: 0.001-9.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999 use increments of 1
		For the mL/hr family:
		Range: 0.1-99.9 in increments of 0.1 Range: 100-999 use increments of 1
		For the mL family:
		Range: 0.001-9.999 use increments of 0.001 Range: 10.0-99.99 use increments of 0.01 Range: 100-1000 use increments of 1
		For the mmol family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999 use increments of 1
		For the Units family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999999999 use increments of 1
		For the Million Units family:
		Range: 0.001-0.999 use increments of 0.001 Range: 1.00-9.99 use increments of 0.01 Range: 10.0-99.9 use increments of 0.1 Range: 100-999 use increments of 1

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. Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Step-by-step Procedures**

The following section provides step-by-step procedures that will enable you to create and manage medication entries. In this section you will learn how to do the following:

- Add a medication entry with a Full rule set in a CCA
- Add a medication entry with a Limited rule set in a CCA
- Add a medication entry with a Label Only rule set in a CCA
- Edit a medication entry in a CCA
- View a medication entry in a CCA
- Remove a medication entry from a CCA
- Add a medication entry with a Full rule set the Master Drug Formulary
- Add a medication entry with a Limited rule set to the Master Drug Formulary
- Add a Label Only medication entry to the Master Drug Formulary
- Edit a medication entry in the Master Drug Formulary
- View a medication entry in the Master Drug Formulary
- Delete a medication entry from the Master Drug Formulary
- Copy a medication entry from the Master Drug Formulary to a Target CCA

## Working with CCA Medication Entries (Plum 360)

**Note:** When adding medication entries to the Target List, both the selected CCA and the Master Drug Formulary are updated. When adding to the Source List, only the Master Drug Formulary is updated.

The maximum number of medication entries allowed in a CCA is 150-400 depending on your licensing.

In the Target List, the created medication entries are grouped by Displayed Name plus Concentration. If there is no grouping of medication entries with the same Displayed Name plus Concentration, the entry will go to the bottom of the list of medication entries.

Within the grouping there is a sorting

- a. Clinical Use with the Default setting of Clinical Use topping the series
- b. Each group in Alphabetical order
- c. Dosing units

### To add a medication entry with a Full rule set in a CCA:

1. Select the desired CCA from the Target List drop-down list.

I Hospira MedNet™				
Drug Library Manageme	ent Reports 0	CCA Setup   Master Ir	nfuser Setup	
<u>F</u> inalize		2		
Target List: 5 Wes	t ———			
 5 West	<b>•</b>	<u>A</u> dd <u>E</u> dit	<u>V</u> iew <u>R</u> emove	
Generic Name	External ID	A Displayed Name	Concentration (or Container Volume)	
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Fu
Cefazolin	EXT_ID_018	Cefazolin	mg /mL	Fu
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Fu
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Fu

2. From the Target List, click Add.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 3. Select the Generic Name of a medication.
- **Note:** Selecting a generic name from the list automatically populates the **Displayed Name**, **External ID, Therapeutic Class**, and **Class ID** fields.

Show generic names be	ginning with 💌				
Generic Name	Brand Name	External ID	Strength	Volume	Dosage For
Clindamycin	Clindamycin	EXT_ID_031			code_4
Cotrimoxazole	Cotrimoxazole	EXT_ID_032			code_5
Cytarabine	Cytarabine	EXT_ID_033			code_6
Diltiazem	Diltiazem	EXT_ID_034			code_1
Diovan%	Diovan%	12345678			code_1
Diovan@	Diovan@	12345679			code_2
DOBUTamine	DOBUTamine	EXT_ID_035			code_2
Docetaxel	Docetaxel	EXT_ID_036			code_3
DOPamine	DOPamine	EXT_ID_037			code_4
DOXOrubicin	DOXOrubicin	EXT ID 038			code 5
Selected Medication	Generi	EXT ID 038	i Strength / Vo	·	
	37) {Description_1_Include}				
Display	ed Name:	Therapeutic Class:			ss ID:
DOPamine	Cla	ss_Descr_37	class	37	

- **Note:** If the desired generic name is not in the **Generic Name** list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.
- **Note:** The **Displayed Name** can be changed as desired; for example, to accommodate Tall Man lettering or another unique name. The maximum number of characters in a Displayed Name is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.

- 4. Select Full (if not selected) from the Rule Sets drop-down list.
- 5. Enter a Medication Amount. Select a Medication Unit from the drop-down list and enter a Diluent Amount, if desired.

Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form		
Clindamycin	Clindamycin	EXT_ID_031			code_4	-	
Cotrimoxazole	Cotrimoxazole	EXT_ID_032			code_5		
Cytarabine	Cytarabine	EXT_ID_033			code_6	-	
Diltiazem	Diltiazem	EXT_ID_034			code_1		
Diovan%	Diovan%	12345678			code_1		
Diovan@	Diovan@	12345679			code_2	1	
DOBUTamine	DOBUTamine	EXT_ID_035			code_2		
Docetaxel	Docetaxel	EXT_ID_036			code_3		
DOPamine	DOPamine	EXT_ID_037			code_4		
	') {Description_1_Include}	Name (External ID) ( Therapeutic Class:	Strength / Vo		osage Form}:		
	') {Description_1_Include}		Strength / Vo				
DOPamine (EXT_ID_037	') {Description_1_Include}		Strength / Vo	Cla		1	
DOPamine (EXT_ID_037 Displayed	') {Description_1_Include}	Therapeutic Class:		Cla		]	
DOPamine (EXT_ID_037 Displayed DOPamine	') {Description_1_Include}	Therapeutic Class:		Cla	iss ID:	]	
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets:	') {Description_1_Include}	Therapeutic Class:	class	Cla _37	ess ID:	d	
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full	') {Description_1_Include}	Therapeutic Class:	class	Cla _37	6 ack delivery allowe		
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full	() {Description_1_Include} Name: Clas: Medication Unit:	Therapeutic Class: s_Descr_37	class	Cla _37	ess ID:		
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full Concentration Medication Amount:	() {Description_1_Include} Name: Clas: Medication Unit:	Therapeutic Class: s_Descr_37 Diluent Amount: mL	class	Cla _37	6 ack delivery allowe		
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full Concentration Medication Amount: 400	() {Description_1_Include} Name: Clas: Medication Unit:	Therapeutic Class: s_Descr_37 Diluent Amount: mL	class	Cla _37	6 ack delivery allowe		
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full Concentration Medication Amount: 400	() {Description_1_Include} I Name: Class Medication Unit:	Therapeutic Class: s_Descr_37 Diluent Amount: mL 250	class	Cla 37	ass ID: 6 ack delivery allowe iggyback to interru 7		
DOPamine (EXT_ID_037 Displayed DOPamine Rule Sets: Full Concentration Medication Amount: 400	() {Description_1_Include} Name: Clas: Medication Unit:	Therapeutic Class: s_Descr_37 Diluent Amount: mL 250	class	Cla 37	ass ID: 6 ack delivery allowe iggyback to interru 7		

- 6. Place a check mark in the box next to Piggyback delivery allowed, if desired.
- 7. Place a check mark in the box next to Allow piggyback to interrupt this infusion, if desired.
- 8. Enter a Clinical Use, if desired.
- 9. Click Next.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 10. Select the dosing unit from the drop-down list and enter the values for soft and hard limits. (You must specify at least one limit.)
- 11. Once you enter a value for Dosing Unit and dosing limit(s), you will be able to add three more dosing units, for a total of four dosing units for the selected medication entry with the same Displayed Name and Concentration.

You can add each selection by clicking the green plus "+" sign.

	Name (External ID) (Strength / Volume	) {Dosage Form}:
OPamine (EXT_ID_037) {Description_1	_Include}	
Displayed Name:	Therapeutic Class:	Class ID:
DOPamine	Class_Descr_37	class_37
Rule Sets:		
Concentration Medication Amount: Medicatio	n Unit: Diluent Amount: mL	Figgyback delivery allowed
400 mg	250	Allow piggyback to interrupt this infusion
Clinical Use:		
Summary: DOPamin	ne 400 mg / 250 mL for Clinical Use	"" Dosed in mL/kg/day
Summary: DOPamin o add additional dosing units, click the "+	"tab.	
Summary: DOPamin o add additional dosing units, click the "+ lote: A tab with red text denotes incompl	" tab. ete or invalid do <u>sing</u> unit and/or dosing li	
osing Units and Limits Summary: DOPamin o add additional dosing units, click the "+ lote: A tab with red text denotes incompl (1) mL/kg/min (2) mL/hr (3) ml Dosing Unit: LHL: mL/kg/day	" tab. ete or invalid dosing unit and/or dosing li L/kg/day = +	
Summary: DOPamin o add additional dosing units, click the "+ lote: A tab with red text denotes incompl (1) mL/kg/min (2) mL/hr (3) ml Dosing Unit: LHL	" tab. ete or invalid dosing unit and/or dosing li L/kg/day = + : LSL:	INITS.

- Note: A tab with red text denotes either incomplete or invalid dosing unit and/or dosing limits.
  - 12. Click Save & Add Another Rule Set, or Save & Close to add the medication entry to the CCA.

### To add a medication entry with a Limited rule set in a CCA:

- 1. Select the desired CCA from the Target List drop-down list.
- 2. From the Target List, click Add.

	Hospira MedNet™				
D	rug Library Managem	ent Reports (	ICA Setup   Master Ir	nfuser Setup	
	Einalize		2		
Г	Target List: 5 Wes	t ———			
	5 West	•	Add Edit	<u>V</u> iew <u>R</u> emove	
	Generic Name	External ID	<ul> <li>Displayed Name</li> </ul>	Concentration (or Container Volume)	
	Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Fu
	Cefazolin	EXT ID 018	Cefazolin	mg/mL	Fu
	Cerazolin	LV1_10_010			THE
	DOBUTamine	EXT_ID_010	DOBUTamine	250 mcg / 20 mL	F

- 3. Select the Generic Name of a medication.
- Note: Selecting a generic name from the list automatically populates the **Displayed Name**, **External ID**, **Therapeutic Class**, and **Class ID** fields.

ihow generic names beg	jinning with 🗾				
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form
Diovan@	Diovan@	12345679			code_2
DOBUTamine	DOBUTamine	EXT_ID_035			code_2
Docetaxel	Docetaxel	EXT_ID_036			code_3
DOPamine	DOPamine	EXT_ID_037			code_4
DOXOrubicin	DOXOrubicin	EXT_ID_038			code_5
Drug '	Drug '	ext-1104			code_3
Drug&	Drug&	ext-1100			code_6
Epinephrine	Epinephrine	EXT_ID_039			code_6
Epoprostenol	Epoprostenol	EXT_ID_040			code_1
Entifibatida	Entifibatida	EYT TO 041	1 1		rode 2
elected Medication	Generio 7) {Description_1_Include}	<b>c Name</b> (External ID) (S	Strength / Vo	lume) (Do	sage Form}:
		There is the file of		ci-	10
Displaye	d Name:	Therapeutic Class:		Cla	ss ID:

- **Note:** If the desired generic name is not in the **Generic Name** list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.
  - 4. The **Displayed Name** can be changed as desired, for example, to accommodate Tall Man lettering or another unique name. The maximum number of characters in a Displayed Name is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 5. Select Limited (if not selected) from the Rule Sets drop-down list.
- 6. Enter Container Volume, if desired.
- 7. Place a check mark in the box next to Piggyback delivery allowed, if desired.
- 8. Place a check mark in the box next to Allow piggyback to interrupt this infusion, if desired.
- 9. Enter a Clinical Use, if desired.

Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form		
oboramine	Doboranino	CV1_10_000	g			-	
ocetaxel	Docetaxel	EXT_ID_036			code_3		
OPamine	DOPamine	EXT_ID_037			code_4		
OXOrubicin	DOXOrubicin	EXT_ID_038			code_5	_	
rug'	Drug '	ext-1104			code_3	_	J
rug&	Drug&	ext-1100			code_6	_	
pinephrine	Epinephrine	EXT_ID_039			code_6		
poprostenol	Epoprostenol	EXT_ID_040			code_1		
ptifibatide	Eptifibatide	EXT_ID_041			code_2		
rythromycin	Erythromycin	EXT_ID_042			code_3		
Displayed OPamine Rule Sets:		Therapeutic Class: s_Descr_37	class		iss ID:		
OPamine Rule Sets: imited		· ·	,	_37			
OPamine		· ·	,	_37	iss ID: ack delivery allowe	d	
OPamine Rule Sets: imited		· ·	,	_37			

10. Click Next.

- 11. Select the dosing unit from the drop-down list and enter the values for soft and hard limits. (You must specify at least one limit.)
- 12. Once you enter a value for Dosing Unit and dosing limit(s), you will be able to add three more dosing units, for a total of four dosing units for the selected medication entry with the same Displayed Name and Concentration.

Target List: Add Rule Set X Medication Entry Generic Name (External ID) (Strength / Volume) {Dosage Form}: DOPamine (EXT\_ID\_037) {Description\_1\_Include} Class ID: Displayed Name: Therapeutic Class: Class\_Descr\_37 DOPamine class\_37 Rule Sets: Limited -Container Volume: mL Piggyback delivery allowed Allow piggyback to interrupt this infusion Clinical Use: -Dosing Units and Limits Summary: DOPamine \_\_ mL for Clinical Use "\_\_" Dosed in \_ To add additional dosing units, click the "+" tab. Note: A tab with red text denotes incomplete or invalid dosing unit and/or dosing limits. (1) mL 🔄 (2) Select 🗶 🕂 Dosing Unit: LHL: LSL: USL: UHL: Save & Add Another Rule Set Save & Close Cancel Help

You can add each selection by clicking the green plus "+" sign.

- Note: A tab with red text denotes either incomplete or invalid dosing unit and/or dosing limits.
  - 13. Click Save & Add Another Rule Set or Save & Close to add the medication entry to the CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To add a Label Only rule set medication entry in a CCA:

1. Select the desired CCA from the Target List drop-down list.

_	Hospira MedNet™		Guide Library		
D	rug Library Manageme	ent Reports (	ICA Setup 🛛 Master Ir	nfuser Setup	
	Einalize		2		
r	Target List: 5 Wes	t ———			
	5 West	<b>v</b>	<u>A</u> dd <u>E</u> dit	View Remove	
	Generic Name	External ID	A Displayed Name	Concentration (or Container Volume)	
	Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	FL
				1 1	
	Cefazolin	EXT_ID_018	Cefazolin	mg/mL	Fu
	Cetazolin DOBUTamine	EXT_ID_018 EXT_ID_035	Cetazolin DOBUTamine	mg / mL 250 mcg / 20 mL	Fu

- 2. From the Target List, click Add.
- 3. Select the Generic Name of a medication.
- Note: Selecting a Generic Name from the list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.

Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form		
Diovan%	Diovan%	12345678			code_1		
Diovan@	Diovan@	12345679			code_2		
OBUTamine	DOBUTamine	EXT_ID_035			code_2	_	
Docetaxel	Docetaxel	EXT_ID_036			code_3		
OOPamine	DOPamine	EXT_ID_037			code_4		-
DOXOrubicin	DOXOrubicin	EXT_ID_038			code_5		
Drug '	Drug '	ext-1104			code_3		
Drug&	Drug&	ext-1100			code_6		
Epinephrine	Epinephrine	EXT_ID_039			code_6		
Epoprostenol	Epoprostenol	EXT ID 040			code 1		
Displayed DOPamine		Therapeutic Class: s_Descr_37	class		s ID:		
DOPamine Rule Sets:			class		s iD:		
DOPamine Rule Sets:			class		s iD:		
DOPamine			,	_37	ck delivery allowe	d	
DOPamine Rule Sets:			[	_37 Piggyba			
DOPamine Rule Sets:			[	_37 Piggyba	ck delivery allowe		
DOPamine Rule Sets:			[	_37 Piggyba	ck delivery allowe		
DOPamine Rule Sets:			[	_37 Piggyba	ck delivery allowe		

**Note:** If the desired generic name is not in the **Generic Name** list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 4. The **Displayed Name** can be changed as desired, for example, to accommodate Tall Man lettering or another unique name. The maximum number of characters in a Displayed Name is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- 5. Select Label Only from the Rule Sets drop-down list.
- 6. Place a check mark in the box next to Piggyback delivery allowed, if desired.
- 7. Place a check mark in the box next to **Allow Piggyback to interrupt this infusion**, if desired.
- 8. Click Next.
- 9. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To edit a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to view from the Target List drop-down list.

	🗹 Hospira MedNet"	'Meds™-Usei	' Guide Library		Ś
	Drug Library Managem	ent Reports 0	ICA Setup 🛛 Master Ir	nfuser Setup	Į
	Einalize			3	() }
-	Target List: 5 Wes	t —			
1	5 West	<b>•</b>	Add Edit	View <u>R</u> emove	1
					{
	Generic Name	External ID	<ul> <li>Displayed Name</li> </ul>	Concentration (or Container Volume)	Rule Set
	Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full
	Cefazolin	EXT_ID_018	Cefazolin	mg /mL	Full 🤇
	DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full (
2	DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full
-	DOPamine	EXT_ID_037	DOPamine	400 mg / 250 mL	Full
	have a second where	1. e <b>r 1</b> av			

- 2. From the Target List, select the medication entry you want to edit.
- 3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

- 4. Make changes as desired.
- **Note:** You cannot change the **Therapeutic Class** or **Class ID** when editing a medication entry in a CCA.

Generic Nam	e (External ID) (Strength / Volum	e) {Dosage Form}:	
DOPamine (EXT_ID_037) {Description_1_Ind	lude}-		Select
Displayed Name:	Therapeutic Class:	Class ID:	
DOPamine			
Summary: DOPamine 200 r	mg / 5 mL for Clinical Use ""	Dosed in mL/hr	
Rule Sets:			
Full			
Concentration		Piggyback delivery allowed	
Medication Amount:Medication Un	hit: Diluent Amount: mL		
200 mg	5	Allow piggyback to interrup	t this infusion
Clinical Use (optional)			
	_		
I If the Clinical Use is blank, it will be updated wit	th the uplue in the Default Clinical I	to from the Mactor Tofucor Solur	
· · ·	un une value in une beraulu climicaru	ose moni une master initiser becup.	
Dose Limits			
Dosing Unit: LHL:	LSL:	USL: UHL	.:
mL/hr 🗾 1			

5. Click **Save & Close** to save changes.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

**Note:** If the medication entry that is edited is assigned to only one CCA, the medication entry will also be updated with the same change in the Master Drug Formulary. If the medication entry that is edited is assigned to more than one CCA, a new medication entry will be created in the Master Drug Formulary.

### To view a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to view from the Target List drop-down list.

rug Library Managen	nent Reports	CCA Setup   Master Ir	nfuser Setup	
Einalize				
Target List: 5 We	st —			
5 West	-	Add Edit	View Remove	
Generic Name	External ID	A Displayed Name	Concentration (or Container Volume)	Rule S
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full
Acyclovir Cefazolin	EXT_ID_002 EXT_ID_018	Acyclovir Cefazolin	500 mcg / 10 mL mg /mL	Full Full
<u> </u>		· ·	21	
Cefazolin	EXT_ID_018	Cefazolin	mg/mL	Full

- 2. From the Target List, select the medication entry you want to view.
- 3. Click View.

Nedication and Concentration			
Generic Nan	ne (External ID) (Strength / Volume)	{Dosage Form}:	
DOPamine (EXT_ID_037) {Description_1_In	clude}		Select
Displayed Name:	Therapeutic Class:	Class	ID:
DOPamine			
Summary: DOPamine 200	mg / 5 mL for Clinical Use "" D	osed in mL/br	
Rule Sets:			
Full			
Concentration	[		
	bits Different Assessments and	🔽 Piggyback delive	ery allowed
Medication Amount: Medication L	Init: Diluent Amount: mL		
200 mg	5	Mallow piggyback	to interrupt this infusion
linical Use (optional)			
f the Clinical Use is blank, it will be updated w	ith the value in the Default Clinical Use	from the Master Infu	iser Setup.
ose Limits			
Dosing Unit: LHL:	LSL:	USL:	UHL:
mL/hr 🔽 1		[	
	I I		

4. Click **Close** to exit the screen.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To remove a medication entry from a CCA:

1. Select the CCA containing the medication entry you want to remove from the Target List drop-down list.

I Hospira MedNet™	'Meds™ - Use	r Guide Library		í
Drug Library Managem	ent Reports i	CCA Setup 🛛 Master Ir	nfuser Setup	
Einalize				;
Target List: 5 Wes	t ———			
5 West	<b>•</b>	<u>A</u> dd <u>E</u> dit	View Remove	$\supset$
Generic Name	External ID	<ul> <li>Displayed Name</li> </ul>	Concentration (or Container Volume)	Rule Set
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full
Cefazolin	EXT_ID_018	Cefazolin	mg/mL	Full
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full
DOPamine	EXT ID 037	DOPamine	400 mg / 250 mL	Full

- 2. Select the medication entry you want to remove.
- 3. Click Remove.

🗹 Confirm Remove from ECA	×
Remove from: 5 West	
Medication Entries	_ I
DOPamine 200 mg / 5 mL	-
Remove Cancel Help	

4. At the confirmation to remove from the CCA, click Remove.

## Working with the Master Drug Formulary (Plum 360)

The Master Drug Formulary can contain medication entries not assigned to a CCA, to facilitate later use. The total number of medication entries in the Master Drug Formulary for the Plum 360 infuser can either be 7,200 or 16,000, depending on your license.

### To add a medication entry with a Full rule set to the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

	Source List: Mast			View Delete	
	Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Se
	DOPamine	EXT ID 037	DOPamine	mL	Limited
I	Hydromorphone	EXT_ID_054	Hydromorphone		Label Only
	Morphine	EXT_ID_072	Morphine		Label Only
	Morphine	EXT_ID_072	Morphine PCA	30 mg / 30 mL	Full
	No Drug Selected		No Drug Selected		Label Only
I	Vancomycin	EXT_ID_097	Vancomycin		Label Only
	,				
Li	ibrary Name: User G	uide Library		Infuse	r: Plum A+

- 2. From the Source List, click Add.
- 3. Select the Generic Name for the medication entry.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.

5how generic names be					
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form
Erythromycin	Erythromycin	EXT ID 042			code 3
Esmolol	Esmolol	EXT_ID_043			code 1
Etoposide	Etoposide	EXT_ID_010			code 2
Famotidine	Famotidine	EXT ID 045			code 3
Fentanyl	Fentanyl	EXT_ID_046			code_4
Fluconazole	Fluconazole	EXT ID 047			code 5
Flumazenil	Flumazenil	EXT ID 048			code 6
Lorazepam	Lorazepam	EXT_ID_062			code_2
Magnesium	Magnesium	EXT_ID_063			code_3
M	kaii	EVE TO OCK	1 1		
elected Medication Fentanyl (EXT_ID_04 Displayed Name: Fenta	5) {Description_1_Include}	Name (External ID) (	Strength / Vo	lume) (Do	osage Form}:

4. Click Select Medication.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a medication name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.
  - 5. Select Full (if not already selected) from the Rule Sets drop-down list.
  - 6. Enter a Medication Amount (optional), select the Medication Unit and Diluent Amount (optional).

a design and a set of a set of			<b>.</b>
entanyl (EXT_ID_046) {Description_1_	Include}		<u>S</u> elect
Displayed Name:	Therapeutic Class:	Class ID:	
entanyl	Class_Descr_46	class_46	
Current and Contract 21	50 mcg / 5 mL for Clinical Use ""	Deced in men	
Summary, rentary 2.	to mcg / 5 mc for clinical ose	Dosed in meg	
Rule Sets:			
ul 🔽			
Concentration		٦ 🗖	
		Piggyback delivery allowed	
Medication Amount:Medicati	ion Unit: Diluent Amount: mL		
250 mcg	▼ 5	Allow piggyback to interrupt th	is infusion
· · · ·	_,		
inical Use (optional)			
the Clinical Use is blank, it will be updat	ed with the value in the Default Clinical (	Use from the Master Infuser Setup.	
ose Limits			
Dosing Unit: LHL:	LSL:	USL: UHL:	
	4		
ncg	[* ]		

- 7. Select the dosing unit and type the values for soft and hard limits. (You must specify at least one limit.)
- 8. Click Save & Add Another Dosing Unit or Save & Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### To add a Limited rule set medication entry to the Master Drug Formulary:

- 1. Select Master Drug Formulary as the Source List.
- 2. From the Source List, click Add.

Master Drug Formu	lary 🔽 🔍	Add Edit	Vie <u>w</u> Delete	
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule S
DOPamine	EXT ID 037	DOPamine	mL	Limited
Hydromorphone	EXT_ID_054	Hydromorphone		Label Onl
Morphine	EXT ID 072	Morphine		Label Onl
Morphine	EXT_ID_072	Morphine PCA	30 mg / 30 mL	Full
No Drug Selected		No Drug Selected		Label Onl
Vancomycin	EXT_ID_097	Vancomycin		Label Onl

- 3. Select the Generic Name for the medication entry.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.

illin E ocin E vaxel E oprazole E illin E obarbital E	EXT_ID_077 EXT_ID_079 EXT_ID_080 EXT_ID_081 EXT_ID_082 EXT_ID_083			code_2 code_4 code_5 code_6		<u> </u>
ocin E axel E oprazole E illin E obarbital E	EXT_ID_080 EXT_ID_081 EXT_ID_082 EXT_ID_083			code_5 code_6		
axel E oprazole E illin E obarbital E	EXT_ID_081 EXT_ID_082 EXT_ID_083			code_6		
oprazole E illin E obarbital E	EXT_ID_082 EXT_ID_083					
illin E obarbital E	EXT_ID_083			1.4		
obarbital E				code_1		
				code_2		
	EXT_ID_084			code_3		
	EXT_ID_085			code_1		
	EXT_ID_086			code_2		
ssium E	EXT_ID_087			code_3		
	EXT_ID_089			code_5		
idine E	EXT_ID_090			code_6		
PTOkinase E	EXT_ID_091			code_1		
				code_2		
				code_4		
s a very long Generic μ	.ong EXTERNAL			code_5		
-clavulanate E	EXT_ID_093			code_3		
ban E	EXT_ID_094			code_4		
amycin E	EXT_ID_095			code_5		
kinase E	EXT_ID_096			code_6		
omycin E	EXT_ID_097			code_1		
1	123					-
ai FFFssi	namide foi foi foi TOkinase foi hylline a very long Generic f a very long Generic f a very long Generic f avery long Generic f ave	namide         EXT_ID_088           fol         EXT_ID_089           dine         EXT_ID_090           VTOkinase         EXT_ID_091           hylline         EXT_ID_092           a very long Generic         EXT_ID_100           a very long Generic         Long EXTERNAL           clavulanate         EXT_ID_093           van         EXT_ID_093           name         EXT_ID_093           name         EXT_ID_093           name         EXT_ID_094	namide         EXT_ID_088           fol         EXT_ID_089           fol         EXT_ID_090           dine         EXT_ID_090           TOkinase         EXT_ID_092           a very long Generic         EXT_ID_092           a very long Generic         EXT_ID_093           clavulanate         EXT_ID_093           ran         EXT_ID_094           mycin         EXT_ID_095           nase         EXT_ID_096           mycin         EXT_ID_097	namide         EXT_ID_088           fol         EXT_ID_089           dine         EXT_ID_090           vTokinase         EXT_ID_091           hylline         EXT_ID_092           a very long Generic         EXT_ID_100           a very long Generic         EXT_ID_093           clavulanate         EXT_ID_093           van         EXT_ID_094           mycin         EXT_ID_095           nase         EXT_ID_096           mycin         EXT_ID_097	namide         EXT_ID_088         code_4           fol         EXT_ID_089         code_5           dine         EXT_ID_090         code_6           TOkinase         EXT_ID_092         code_2           a very long Generic         EXT_ID_092         code_4           a very long Generic         EXT_ID_093         code_5           clavulanate         EXT_ID_093         code_3           ran         EXT_ID_094         code_5           nase         EXT_ID_095         code_5           mycin         EXT_ID_096         code_6	namide         EXT_ID_088         code_4           fol         EXT_ID_089         code_5           dine         EXT_ID_090         code_6           TOkinase         EXT_ID_091         code_1           hylline         EXT_ID_092         code_2           a very long Generic         EXT_ID_093         code_4           a very long Generic         EXT_ID_093         code_3           clavulanate         EXT_ID_094         code_4           mycin         EXT_ID_095         code_5           nase         EXT_ID_095         code_5           mycin         EXT_ID_096         code_5

4. Click Select Medication.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a displayed name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.
  - 5. Select Limited from the Rule Sets drop-down list.

Source List: Add Rule Set			×
Medication and Concentration	Name (External ID) (Strength / Volum	e) {Dosage Form}:	
Vancomycin (EXT_ID_097) {Description	_4_Exclude}		Select
Displayed Name:	Therapeutic Class:	Class ID:	
Vancomycin	Class_Descr_97	class_97	
Summary: Vancomycin	n mL for Clinical Use "" Dose	d in mL/hr	
Rule Sets:			
Limited			
Container Volume: mL		Piggyback delivery allowed	
		🔽 Allow piggyback to interrupt	this infusion
Clinical Use (optional)			
<u></u>			
If the Clinical Use is blank, it will be update	d with the value in the Default Clinical I	Use from the Master Infuser Setup.	
Dose Limits			
Dosing Unit: LHL:	LSL:	USL: UHL:	
mL/hr		U	
Save & Add Another Dosing Unit	Save & Add Another Rule Set	Save & Close <u>C</u> ancel	Help

- 6. Type the **Container Volume** amount (optional).
- 7. Select mL/hr and enter the values for soft and hard limits. (You must specify at least one limit.)
- 8. Click Save & Add Another Dosing Unit or Save and Add Another Rule Set or Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### To add a Label Only medication entry to the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

Master Drug Formu	lary 🔽 🔍	A <u>d</u> d Edi <u>t</u>	Vie <u>w</u> Delete	
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule S
DOPamine	EXT ID 037	DOPamine	mL	Limited
Hydromorphone	EXT_ID_054	Hydromorphone		Label Only
Morphine	EXT_ID_072	Morphine		Label Only
Morphine	EXT_ID_072	Morphine PCA	30 mg / 30 mL	Full
No Drug Selected		No Drug Selected		Label Only
Vancomycin	EXT_ID_097	Vancomycin		Label Only
			·	•

- 2. From the Source List, click Add.
- 3. Select the Generic Name for the medication entry.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.

litaxel htoprazole hicillin	EXT_ID_080 EXT_ID_081 EXT_ID_082 EXT_ID_083			code_5 code_6 code_1		
ntoprazole nicillin	EXT_ID_082 EXT_ID_083			code_1		
nicillin	EXT_ID_083			-		
ntobarbital				code_2		
	EXT_ID_084			code_3		
enylephrine	EXT_ID_085			code_1		
assium	EXT_ID_087			code_3		
cainamide	EXT_ID_088			code_4		
pofol	EXT_ID_089			code_5		
nitidine	EXT_ID_090			code_6		
	EXT_ID_091					
				code_2		
				code_4		
				-		
ar-clavulanate	EXT_ID_093			code_3		
ofiban	EXT_ID_094			code_4		
	EXT_ID_095					
Okinase	EXT_ID_096			code_6		
				code_1		
	123					
rapamil	EXT_ID_099					
CRIStine	Long EXTERNAL			code_2		-
	assium cainamide soofol itidine EPTOkinase Deptylline is a very long Generic is a very long Generic is a very long Generic is a very long Generic is a very long Generic fiban ramycin bkinase comycin apamil	assium         EXT_ID_087           cainamide         EXT_ID_088           bofol         EXT_ID_090           EPTOKinase         EXT_ID_091           ophylline         EXT_ID_091           ophylline         EXT_ID_092           is a very long Generic         EXT_ID_093           fiban         EXT_ID_093           fiban         EXT_ID_094           ramycin         EXT_ID_095           bkinase         EXT_ID_096           comycin         EXT_ID_096           comycin         EXT_ID_096           comycin         EXT_ID_096           comycin         EXT_ID_097	assium         EXT_ID_087           cainamide         EXT_ID_088           porfol         EXT_ID_090           EPTOkinase         EXT_ID_091           ophylline         EXT_ID_092           is a very long Generic         EXT_ID_092           ris a very long Generic         CXT_ID_093           fiban         EXT_ID_094           ramycin         EXT_ID_095           kkinase         EXT_ID_096           comycin         EXT_ID_096           Iz3         EXT_ID_097	assium         EXT_ID_087	EXT_ID_087         code_3           cainamide         EXT_ID_088         code_4           cofol         EXT_ID_089         code_5           bofol         EXT_ID_090         code_6           ETTOKinase         EXT_ID_091         code_1           ophylline         EXT_ID_092         code_1           ophylline         EXT_ID_092         code_4           is a very long Generic         EXT_ID_093         code_5           ris a very long Generic         Long EXTERNAL         code_5           ris a very long Generic         EXT_ID_093         code_4           is a very long Generic         Long EXTERNAL         code_5           rishan         EXT_ID_093         code_4           ramycin         EXT_ID_094         code_5           ocde_5         code_6         code_6           comycin         EXT_ID_095         code_6           comycin         EXT_ID_096         code_6           comycin         EXT_ID_099         code_1	EXT_ID_087         code_3           cainamide         EXT_ID_088         code_4           cofol         EXT_ID_089         code_5           itidime         EXT_ID_090         code_6           EPTOkinase         EXT_ID_091         code_1           ophylline         EXT_ID_092         code_1           ophylline         EXT_ID_092         code_4           :is a very long Generic         EXT_ID_093         code_5           :is a very long Generic         Long EXTERNAL         code_5           :is a very long Generic         EXT_ID_093         code_4           :is a very long Generic         Long EXTRNAL         code_5           :is a very long Generic         Long EXT_ID_093         code_4           ramycin         EXT_ID_095         code_5           kinase         EXT_ID_095         code_6           comycin         EXT_ID_096         code_1           123         Imagennil         EXT_ID_099         code_3

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a displayed name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

ource List: Add Rule Set			
Medication and Concentration			
Generic Nam	e (External ID) (Strength / Volume)	) {Dosage Form}:	
Vassopressin (123)			<u>i</u> elect
Displayed Name:	Therapeutic Class:	Class ID:	
Vassopressin			
Summary: Vassopressin			
Rule Sets:			
		Piggyback delivery allowed	
		<ul> <li>Piggyback delivery allowed</li> <li>Allow piggyback to interrupt this in</li> </ul>	fusion
			fusion
			fusion
			fusion
	Save & Add Another Rule Set		fusion

- 4. Select Label Only from the Rule Sets drop-down list.
- 5. Place a check mark in the box next to Piggyback delivery allowed, if desired.
- 6. Click Save & Add Another Rule Set or Save & Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to any CCA.

#### To edit a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	
Acyclovir	EXT ID 002	Acyclovir	500 mca / 10 mL	Fu
Cefazolin	EXT_ID_018	Cefazolin	mg/mL	Fu
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Fu
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Fu
DOPamine	EXT_ID_037	DOPamine	400 mg / 250 mL	Fu
DOPamine	EXT_ID_037	DOPamine	mL	Lim
- • •				

- 2. From the Source List, select the medication entry you want to edit.
- 3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

4. Make changes as desired.

Source List: Edit Rule Set
r Medication and Concentration
Generic Name (External ID) (Strength / Volume) {Dosage Form}:
DOPamine (EXT_ID_037) {Description_1_Include} Select
Displayed Name: Therapeutic Class: Class ID:
DOPamine
Summary: DOPamine 200 mg / 5 mL for Clinical Use "" Dosed in mL/hr
Rule Sets:
Concentration Medication Amount: Medication Unit: Diluent Amount: mL 200 mg 5 F Biggyback delivery allowed Medication Amount: mL Biggyback to interrupt this infusion
Clinical Use (optional)
Dose Limits           Dosing Unit:         LHL:         LSL:         USL:         UHL:           mL/hr         1         1         1         1
Save & Close

5. Click Save & Close to save changes.

**Important:** Changing the dosing unit or medication unit will erase all previously entered limits.

**Note:** When a medication entry is edited, the changes are reflected in the Master Drug Formulary and a confirmation pop-up displays the CCAs that are affected.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

To view a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

Master Drug Formu	Ilary 💌 🔄	A <u>d</u> d Edi <u>t</u>		
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Se
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full
Cefazolin	EXT_ID_018	Cefazolin	mg /mL	Full
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full
DOPamine	EXT_ID_037	DOPamine	400 mg / 250 mL	Full
DOPamine	EXT_ID_037	DOPamine	mL	Limited
	·	i	· ·	

- 2. From the Source List, select the medication entry you want to view.
- 3. Click View.

OPamine (EXT_ID_037) {Description_1_Inclu		osage Form}:
	ıde}	Select
Displayed Name:	Therapeutic Class:	Class ID:
OPamine		
Summary: DOPamine 200 m	ng / 5 mL for Clinical Use "" Dos	ed in mL/br
•		cu
Rule Sets:		
uli 🔽		
_		
Concentration		Piggyback delivery allowed
Medication Amount: Medication Unit	t: Diluent Amount: mL	riggyback delivery allowed
200 mg	5	Allow piggyback to interrupt this infusion
nical Use (optional)		
	-	
		om the Master Infuser Setup.
the Clinical Use is blank, it will be updated with	n the Value in the Derault Clinical Use m	
	n the Value in the Default Clinical Use m	
se Limits		1161.
se Limits Dosing Unit: LHL:		USL: UHL:
se Limits		USL: UHL:

4. Click Close to exit the screen.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### To delete a medication in the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

Master Drug Formulary Add Edit View Delete						
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Se		
Acyclovir	EXT_ID_002	Acyclovir	500 mcg / 10 mL	Full		
Cefazolin	EXT_ID_018	Cefazolin	mg /mL	Full		
DOBUTamine	EXT_ID_035	DOBUTamine	250 mcg / 20 mL	Full		
DOPamine	EXT_ID_037	DOPamine	200 mg / 5 mL	Full		
DOPamine	EXT_ID_037	DOPamine	400 mg / 250 mL	Full		
DOPamine	EXT_ID_037	DOPamine	mL	Limited		
- · ·			· ·- ·			

2. From the Source List, select the medication entry you want to delete.

S	ource List: Delete Rule Set			X		
	Medication and Concentration			_		
	Generic Name (External ID) (Strength / Volume) {Dosage Form}:					
	DOPamine (EXT_ID_037) {Description_1_Include}         Select					
	Displayed Name:	Therapeutic Class:	Class ID:			
	DOPamine					
	Summary: DOPamine 200 mg	/ 5 mL for Clinical Use "" Do	sed in mL/hr			
	Rule Sets:					
	Full					
	Concentration	[		-1		
	Medication Amount: Medication Unit:	Diluent Amount: mL	🔽 Piggyback delivery allowed			
	200 mg		Allow piggyback to interrupt this infusion			
	Clinical Use (optional)					
	To all a film in the second stands which all the second stands which all	ha walioo ia kha Dafavili Chaisad (tao (				
	If the Clinical Use is blank, it will be updated with th	në value in the Derault Clinical Use i	rom the Master Inruser Setup.			
[	Dose Limits					
	Dosing Unit: LHL:	LSL:	USL: UHL:			
	mL/hr 1		<b>I</b>			
			1			
		elete <u>C</u> ancel <u>H</u> elp				

3. Click Delete.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

The following pop-up will display only if the medication entry is assigned to one or more CCA.

1	Delete Medication	×
	Deleting this medication entry will remove it from the master formulary as well as from the following CCAs: 5 West	
	<u>QK</u>	

4. Click OK.

#### To copy to Target CCA:

- 1. Select a medication entry from the Master Drug Formulary.
- **Note:** A Target List CCA must be selected before you can copy a medication entry to a Target CCA from the Master Drug Formulary.
  - 2. Click Copy to Target CCA.

Master Drug Formu	lary 🔽	A <u>d</u> d Edi <u>t</u>	Vie <u>w</u> Delete			Copy to Ta	rget CCA	
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Indication	Dosing Unit	Lower Hard Limit	Lov Soft
nyaromorphone	ENT_10_001	nyaromorphone		Label Only		111E711		
Morphine	EXT_ID_072	Morphine		Label Only		mL/hr		
Morphine	EXT_ID_072	Morphine PCA	30 mg / 30 mL	Full	NOT SPECI	mg/hr		1
No Drug Selected		No Drug Selected		Label Only		mL/hr		
Vancomycin	EXT_ID_097	Vancomycin		Label Only		mL/hr		
Vancomycin	EXT_ID_097	Vancomycin	mL	Limited	NOT SPECI	mL/hr		
Vassopressin	123	Vassopressin		Label Only				
				•				

3. Click Copy on the Confirm Copy to CCA pop-up.

Copy from: Master Drug Formulary Copy to: 5 West Medication Entries VancomycinmL
Medication Entries
Vancomycin mL
Copy Cancel Help

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Part 2: Plum A+ Defining Rule Sets

## Full Rule Set

A Full rule set allows you to enter a complete concentration (for example, 250 mg/500 mL) or partial concentration (for example, 250 mg/\_ mL, \_mg/500 mL or, \_mg/\_mL). Creating a medication entry for the standard concentrations of any medication reduces the number of programming steps on the infuser for the clinician. At least one dosing limit value **must** be entered for each Full rule set.

Source List: Add Rule Set			X			
Generic Name	(External ID) (Strength / Volume	e) {Dosage Form}:				
DOPAMINE (1044) (200 MG / 5 ML) {VIAL}						
Displayed Name:	Therapeutic Class:		Class ID:			
DOPAMINE	BETA-ADRENERGIC AGON	IISTS\1 12:12.08				
Summary: DOPAMINE 200	mg / 5 mL Dosed in mL/hr					
Rule Sets:						
Full						
Medication Amount: Medication U	Init: Diluent Amount: mL					
200 mg	✓ 5	]				
		1				
Dosing Unit: LHL:	LSL:	USL:	UHL:			
mL/hr 🔽 1						
Save & Add Ano	ther Save & Close <u>C</u> a	ancel <u>H</u> elp				

Leaving the medication or diluent amounts blank allows the clinician to enter a non-standard concentration at the time of programming. Full rule sets defined with a partial concentration will require the clinician to enter the concentration values when the dosing units are not mL/hr. When the dosing units are mL/hr, you do not have to enter concentration information.

## **Limited Rule Set**

A Limited rule set does not require a concentration to be defined. At least one dosing limit value must be entered for each Limited rule set. The Container Volume field is optional. When programming the infuser for a medication with a Limited rule set, the clinician enters only the rate, volume to be infused (VTBI) and duration.

Source List: Add Rule	e Set				×	
Generic Name (External ID) (Strength / Volume) {Dosage Form}:						
<b>DOPAMINE</b> (1734) (40	) MG / 1 ML) {**}				*	
Displayed	Name:	Therapeutic Clas	is:	Class ID:		
DOPAMINE		BETA-ADRENERGIC AG	ONISTS 12:12.08			
Summary:	DOPAMINE mL Do	sed in mL/hr				
Rule Sets:						
Limited 🔽						
Container Volume: mL						
Dosing Unit:	LHL:	LSL:	USL:	UHL:		
mL/hr 🔽	10					
	Save & Add Another	Save & Close	<u>Cancel</u> <u>H</u> elp			

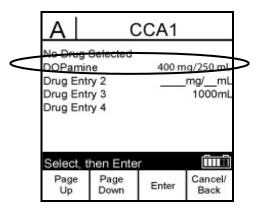
### Label Only Rule Set

A Label Only rule set allows the clinician to see the medication name displayed on the infuser. There are no dosing limits associated with a Label Only rule set. The clinician selects the dosing units during programming. If the dosing units are not mL/hr, the clinician also enters the concentration values.

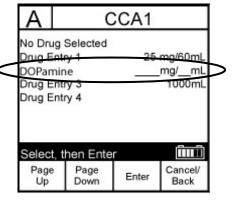
Source List: Add Rule Set						
Generic Name (External ID) (Strength / Volume) {Dosage Form}:						
HYDROCORTISONE (191) (100 MG / 2 ML) {VIAL}						
Displayed Name:	Therapeutic Class:	Class ID:				
HYDROCORTISONE	ADRENALS	68:04.00				
Summary: HYDROCORTISONE Rule Sets: Label Only						
Save & Add Another	Save & Close	Help				

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

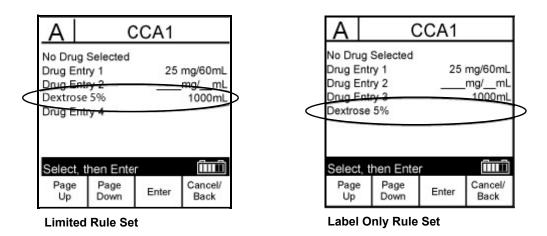
Each type of rule set will create a different display for the medication in the Drug List on the infuser. The pictures below provides examples of how the Drug List will look for each type.



Full Rule Set - Complete Concentration



Full Rule Set - Partial Concentration



You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA are automatically added to the Master Drug Formulary.

Within a CCA, no two medication entries may have exactly the same External ID and Concentration. Also, no two medication entries may have exactly the same Displayed Name and Concentration.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

In the Master Drug Formulary, two medication entries may have the same display name, medication amount, medication unit, diluent amount, and dosing units, as long as one or more of the following limits are different:

- Lower soft limit (LSL)
- Lower hard limit (LHL)
- Upper soft limit (USL)
- Upper hard limit (UHL)

# **Setting Dose Rate Limits**

Hospira MedNet Meds allows you to define dose rate limits for both primary and secondary infusions. It is important that you understand how the dose rate limits function so please read this section carefully.

You can define upper and lower soft and hard limits as part of the rule set for each medication entry that you create in the library. As you configure the limits, the software enforces the following rule:

Lower Hard Limit (LHL) < Lower Soft Limit (LSL) <= Upper Soft Limit (USL) < Upper Hard Limit (UHL)

## **Soft Limits**

*Soft Limits* are dose rate limits that can be overridden when programming the infuser. When a value entered on the infuser is lower than the lower soft limit or higher than the upper soft limit, the infuser displays a soft limit override confirmation message. The infuser records soft limit alerts and the user's response to the alert in its history logs.

For example, if the upper soft limit is set to 15 mL/hr and the clinician enters 16 mL/hr, the infuser will display a soft limit override alert. This alert notifies the clinician that the entry is outside the range of the soft limits set for that medication entry. The clinician can choose to continue programming using the override, or cancel the override and edit the value. Both the override and edit events are recorded separately in the infuser's history log.

### **Hard Limits**

*Hard limits* are dose rate limits that cannot be overridden; the infuser cannot be programmed with a rate that is lower than the lower hard limit or higher than the upper hard limit. (These events are not recorded in the infuser's history log file for Plum infusers with software versions prior to version 13.4.)

**Note:** The actual patient weight is not entered until the clinician programs the infuser. Therefore, Hospira MedNet Meds software cannot verify the validity of a lower limit when entering a weight-based medication entry. The infuser performs the final check when the clinician programs the infuser.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# **Medication Entry Rules and Conventions**

The Hospira MedNet Meds software uses the following conventions for Plum A+ medication entries:

- Full or Limited rule sets require at least one hard or soft limit.
- You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA Target List are automatically added to the Master Drug Formulary List.
- "Validity" messages appear in red at the bottom of the Rule Set window. When you enter a value that is not allowed, the message specifies the defined range for the field, or the reason the value is not permitted.
- You cannot use the following characters in the medication name: comma (,), less than (<), greater than (>), single quotes ('), double quotes (''), and ampersand (&).
- Once you select a medication unit, the dosing unit field will display only the enabled unit type.
- The software prohibits invalid numeric entries and signals such with an audible "beep."
- You may use the vertical and horizontal scroll bars to navigate to an entry.
- If you do not select or populate a required field, an error message appears.
- When you highlight an entry on the Drug Library Management list view, buttons or features that are not allowed appear as "grayed" or disabled.
- When you add a new medication in the Generic Name field of the rule set window, you may search for a medication by typing the first few characters of its generic name. The drop-down list will navigate to show any matching medications.

# The Plum A+ Medication Rule Set

The Rule Set window shown here is used to configure a medication entry for the Plum A+ drug library.

Source List: Add Rule Set			$\mathbf{X}$
Generic Name	(External ID) (Strength / Volume	e) {Dosage Form}:	
OXYTOCIN (537) (10 UNITS / 1 ML) {VIA	L}		~
Displayed Name:	Therapeutic Class:	:	Class ID:
OXYTOCIN	OXYTOCICS	76:00.00	
Summary: OXYTOCIN 10 u	inits / 1000 mL Dosed in mL;	/hr	
Rule Sets:			
Concentration Medication Amount: Medication U	Init: Diluent Amount: mL		
10 units		]	
Dosing Unit: LHL:	LSL:	USL:	UHL:
mL/hr 🔽			
Please specify at least one	limit.		
Save & Add Ano	ther Save & Close 🤇	ancel <u>H</u> elp	

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Rule Set Fields**

The following table lists the fields, a brief description and allowed value range for the infuser.

Each medication entry must have a generic name and a displayed name; you cannot save a medication entry without a name in these fields. The number of characters in the displayed name is determined by how it is displayed on the infuser's screen. Depending on character width, the maximum number of characters allowed in a displayed name can vary from 17 to 29.

To avoid potential confusion when creating medication entries, use only the medication name in the **Displayed Name** field and ensure that the external ID is identical to the external ID used in your institution's formulary. Do not include the diluent as part of the medication name.

Parameter	Description	Allowable Range
Generic Name	This is the medication name from your Medication List. It is selected from the drop-down list and displays the External ID (the hospital's identifier for a medication). Strength/Volume and Dosage Form display only if part of your Medication List.	Not editable in the Rule Set
Displayed Name	This is the name that will be displayed on the infuser.	<ul> <li>Varies depending on the character width</li> <li>Cannot be blank</li> <li>Caution: You cannot use the following characters in the displayed name: comma (,), less than (&lt;), greater than (&gt;), single quotes ('), double quotes ("), and ampersand (&amp;).</li> <li>Note: The display font changes on the Plum A+ infuser for lengthy displayed names.</li> </ul>
Therapeutic Class	The therapeutic class assigned to the medication entries.	Not editable in the Rule Set
Class ID	The ID number for the therapeutic class assigned to the medication entry.	Not editable in the Rule Set
Medication Amount	Allows you to enter the medication amount in the units selected. The combination of medication amount, medication unit, and diluent amount creates the medication's concentration.	<ul> <li>For medication amounts in mcg, mg, grams, mEq, million units, or mmol:</li> <li>0.1–9999 and "Blank"</li> <li>For medication amounts in units:</li> <li>0.1–99999999 and "Blank"</li> </ul>
Medication Unit	Allows you to select the unit of measure for your medication amount.	mcg, mg, grams, mEq, million units, mmol and units

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Parameter	Description	Allowable Range
Diluent Amount	Allows you to set the diluent amount associated with the medication entry. The diluent amount will vary depending on the container size, overfill, and volume of added solution.	<ul> <li>0.1–9999 and "Blank"</li> </ul>
Dosing Unit	Allows you to set the standard dosing unit for the medication. This will be the default value displayed on the infuser. Once dosing unit and concentration are set in Hospira MedNet Meds, they cannot be changed on the infuser by the clinician programming the device.	mL/hr, mcg/kg/min, mcg/kg/hr, mcg/min, mcg/ hr, mg/kg/hr, mg/min, mg/hr, grams/hr, ng/kg/ min, mmol/min, mmol/hr, mEq/hr, Million units/ hr, units/kg/min, units/kg/hr, units/min, units/hr, or mUn/min
LHL, LSL, USL, UHL	Lower hard limit, lower soft limit, upper soft limit, upper hard limit.	The units for the soft and hard limits are the same as the dosing units selected in the medication rule set.
	Allows you to set the upper and/or lower dose rate limits for the selected medication.	For ng/kg/min, mcg/kg/min, mcg/kg/hr, mcg/ min, mcg/hr, mg/min, mg/hr, mg/kg/hr, grams/ hr, Million Units/hr, mEq/hr, mmol/min, mmol/hr:
		<ul> <li>0.001–999*</li> </ul>
		For mL/hr, mUn/min, units/min, units/hr, units/ kg/hr, units/kg/min:
		• 0.1–999

Refer to your infuser's System Operating Manual for complete details and allowable range.

# **Step-by-step Procedures**

The following section provides step-by-step procedures that will enable you to create and manage medication entries. In this section you will learn how to do the following:

- Add a medication entry with a Full rule set in a CCA
- Add a medication entry with a Limited rule set in a CCA
- Add a medication entry with a Label Only rule set in a CCA
- Edit a medication entry in a CCA
- View a medication entry in a CCA
- Remove a medication entry from a CCA
- Add a medication entry with a Full rule set the Master Drug Formulary
- Add a medication entry with a Limited rule set to the Master Drug Formulary
- Add a Label Only medication entry to the Master Drug Formulary
- Edit a medication entry in the Master Drug Formulary
- View a medication entry in the Master Drug Formulary
- Delete a medication entry from the Master Drug Formulary
- Copy a medication entry from the Master Drug Formulary to a Target CCA

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# Working with CCA Medication Entries (Plum A+)

**Note:** When adding medication entries to the Target List, both the selected CCA and the Master Drug Formulary are updated. When adding to the Source List, only the Master Drug Formulary is updated.

The maximum number of medication entries allowed in a CCA is 150.

#### To add a medication entry with a Full rule set in a CCA:

1. Select the desired CCA as the Target List from the drop-down list.

_	Hospira MedNet		V		,
	Drug Library Manageme	ent Reports CCA	Setup Master Infus	er Setup	
	Einalize				$\sim$
	Target List: 2 North-				(2)
	2 North			View Remove	
	2 NOTET				1
	Generic Name	🔺 External ID	Displayed Name	Concentration (or Container Volume)	
	No Drug Selected		No Drug Selected		
	CLINDAMYCIN	1421	CLINDAMYCIN		
	DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	
	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	
	DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg/mL	
Ι.,	MORPHINE	2738	WORPHINE	250.mL	/

2. From the Target List, click Add.

- 3. Select the Generic Name for the medication entry.
- **Note:** Selecting a generic name from the drop-down list automatically populates the **Displayed Name**, **External ID**, **Therapeutic Class**, and **Class ID** fields.
- **Note:** The **Displayed Name** can be altered as desired, for example, to accommodate "Tall Man lettering." The maximum number of characters in a **Displayed Name** is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

	Target List: Add Rule Set		
	Generic Name (Exte	ernal ID)(Strength / Volume){Do:	sage Form}:
(3)	<b>DOPAMINE</b> (1734) (40 MG / 1 ML) {**}		*
<u> </u>	Displayed Name:	Therapeutic Class:	Class ID:
(4)	- DOPAMINE	BETA-ADRENERGIC AGONISTS	12:12.08
$\bigcirc$	Summary: DOPAMINE 40 mg /	1 mL Dosed in mL/hr	
(5)	Rule Sets:		
<u>(6)</u>	Concentration Medication Amount: Medication Unit: 40 mg	Diluent Amount: mL	
0	Dosing Unit: LHL:	LSL:	USL: UHL:
7	mL/hr 💙 1		
·	Save & Add Another	Save & Close	

- 4. The **Displayed Name** can now be changed as desired; for example, to accommodate Tall Man lettering or another unique name.
- 5. Select Full (if not selected) from the Rule Sets drop-down list.
- 6. Select the medication unit and enter a Medication Amount and Diluent Amount (if desired).
- 7. Select the dosing unit and enter the values for soft and hard limits. (You must specify at least one limit.)
- 8. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To add a medication entry with a Limited rule set in a CCA:

1. Select the desired CCA as the Target List.

_	Hospira MedNet	- V	Setup Master Infus	er Setup	1
(	Einalize -Target List: 2 North-				
1	2 North			<u>View</u> <u>R</u> emove	
	Generic Name	🔺 External ID	Displayed Name	Concentration (or Container Volume)	
	No Drug Selected		No Drug Selected	1	
	CLINDAMYCIN	1421	CLINDAMYCIN		
	DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	
	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg/4 mL	
	DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg/mL	
· · · ·	MORPHINE	2738	MORPHINE	250.mL	1

- 2. From the Target List, click Add.
- 3. Select the Generic Name for the medication entry.

Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.

- **Note:** The **Displayed Name** can be altered as desired, for example, to accommodate Tall Man lettering. The maximum number of characters in a **Displayed Name** is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

	Target List: Add Rule Se	et				X
		<b>Generic Name</b> (Ext	ernal ID) (Strength / Vol	lume) {Dosage Form}:		
(3)	DEXT 5%/NSS (1504) ( )	1000 ML) {IV BAG}				*
0	Displayed Na	me:	Therapeutic Cla	ass:	Class ID:	
(4)	DEXT 5%/NSS		CALORIC AGENTS	40:20.00		
$\bigcirc$	Summary: D	EXT 5%/NSS 200 r	nL Dosed in mL/hr			
5	Rule Sets: - Limited					
	Container Volume: mL 200					
6	Dosing Unit:	LHL:	LSL:	USL:	UHL:	
	mL/hr 🔽 1					
					<b>.</b>	
		5 <u>a</u> ve & Add Another	Save & Close	Cancel Help		

- 4. The **Displayed Name** can now be changed as desired; for example, to accommodate Tall Man lettering or another unique name.
- 5. Select Limited from the Rule Sets drop-down list.
- 6. Enter the container volume amount (optional).
- 7. Select mL/hr and enter the values for soft and hard limits. (You must specify at least one limit.)
- 8. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To add a Label Only rule set medication entry in a CCA:

1. Select the desired CCA as the Target List.

	🗹 Hospira MedNet	t™ Meds™ - User	Guide PlumA+		
	Drug Library Manageme	ent Reports CCA	Setup Master Infus	er Setup	
	Einalize				
1	2 North		i <u>E</u> dit	View Remove	2
	Generic Name	🔺 External ID	Displayed Name	Concentration ( (or Container Volume)	
	No Drug Selected		No Drug Selected		1
	CLINDAMYCIN	1421	CLINDAMYCIN		1
	DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	
	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	
	DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg /mL	
I.	MORPHINE	2738	MORPHINE	.250 mL	/

- 2. From the Target List, click Add.
- 3. Select the generic name for the medication entry from the drop-down list.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.
- **Note:** The **Displayed Name** can be altered as desired, for example, to accommodate Tall Man lettering. The maximum number of characters in a **Displayed Name** is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

	Target List: Add Rule Set		
$\frown$	Generic Name (Ext	ernal ID)(Strength / Volume){Dosage Form}:	
(3)	DOPAMINE (1044) (200 MG / 5 ML) {VIAL}		~
$\bigcirc$	Displayed Name:	Therapeutic Class:	Class ID:
4	DOPAMINE	BETA-ADRENERGIC AGONISTS\1 12:12.08	
0	Summary: DOPAMINE		
	Rule Sets:		
(5)	Label Only 😽		
	Save & Add Another	Save & Close Cancel Help	

- 4. The **Displayed Name** can now be changed as desired, for example, to accommodate Tall Man lettering or another unique name.
- 5. Select Label Only from the Rule Sets drop-down list.
- 6. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To edit a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to edit from the drop-down list.

	🗹 Hospira MedNe	t™ Meds™ - User	Guide PlumA+		1
	Drug Library Managen	ent Reports CCA	Setup Master Infus	er Setup	
	<u>Finalize</u>				
1	2 North			<u>V</u> iew <u>R</u> emove	3
	Generic Name	🔺 External ID	Displayed Name	Concentration (or Container Volume)	
	No Drug Selected		No Drug Selected	1	
	CLINDAMYCIN	1421	CLINDAMYCIN		
(2)	DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	
	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	
	DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg/mL	
		2738	MORPHINE	250 ml	ş

- 2. From the Target List, select the medication entry you want to edit.
- 3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

- 4. Make changes as desired.
- **Note:** You cannot change the **Therapeutic Class** or **Class ID** when editing a medication entry in a CCA.

	1	Target List: Edit Rule	Set				×
			Generic Name (Ext	ernal ID) (Strength / Volun	ne) {Dosage Form}:		
		<b>DOPAMINE</b> (1734) (40	MG / 1 ML) {**}				~
		Displayed	Name:	Therapeutic Class	5:	Class ID:	
		DOPAMINE		BETA-ADRENERGIC AGC	NISTS 12:12.08		
		Summary:	DOPAMINE 40 mg /	1 mL Dosed in mL/hr			
		Rule Sets:					
		Full 💌					
		Concentration					
		Medication Amount:	Medication Unit:	Diluent Amount: mL	_		
4		40	mg	✓ 1			
		Dosing Unit:	LHL:	LSL:	USL:	UHL:	
		mL/hr 🛛 🔽	1				
			Save &	Close <u>C</u> ancel	Help		

- 5. Click Save & Close to save changes.
- **Note:** If the medication that is edited is assigned to only one CCA, the medication will also be edited in the Master Drug Formulary. If the medication that is edited is assigned to more than one CCA, a new medication will be created in the Master Drug Formulary.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To view a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to view from the Target List drop-down.

	🗹 Hospira MedNet	™ Meds™ - User	Guide PlumA+		
	Drug Library Manageme	ent Reports CCA	Setup Master Infus	er Setup	
	Einalize			4	
1	2 North			View Remove	(3)
	Generic Name	🔺 External ID	Displayed Name	Concentration (or Container Volume)	
	No Drug Selected		No Drug Selected		1
	CLINDAMYCIN	1421	CLINDAMYCIN		1
2	DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	
2	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	
	DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg/mL	
	MORPHINE	2738	WORPHINE	250.mL	/

- 2. From the Target List, select the medication entry you want to view.
- 3. Click View.

#### To remove a medication entry from a CCA:

1. Select the CCA containing the medication entry you want to remove from the Target List drop-down.

	🗹 Hospira MedNet	t™ Meds™ - User	Guide PlumA+		
· · · · · ·	Drug Library Managem	ent Reports CCA	Setup Master Infus	er Setup	
	<u>Finalize</u>				
1	2 North			View Remove	3
	Generic Name	🔺 External ID	Displayed Name	Concentration (or Container Volume)	
	No Drug Selected		No Drug Selected		1
(2)	CLINDAMYCIN	1421	CLINDAMYCIN		
	NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	
	MORPHINE	2738	MORPHINE	250 mL	
	OXYTOCIN	537	OXYTOCIN	10 units / 1000 mL 🧠	
Į.		and a second from		and the second s	*

- 2. Select the medication entry you want to remove.
- 3. Click Remove.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

4. At the confirmation to remove from the CCA, click Remove.

🗹 Confirm Remove from CCA	×
Remove from: 2 North	
Medication Entries	_
CLINDAMYCIN	
Remove Cancel Help	

# Working with the Master Drug Formulary (Plum A+)

The Master Drug Formulary can contain medication entries not assigned to a CCA, to facilitate later use. The total number of medication entries in the Master Drug Formulary for the Plum A+ infuser cannot exceed 3,510.

#### To add a medication entry with a Full rule set to the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

Master Drug Formul	lary 🔽	Ado	d Edit (	View Delete	(
Master Drug Formul	ary				ş
CU 2 North		nal ID	Displayed Name	Concentration (or Container Volume)	
5 West			No Drug Selected		
/edicine			CLINDAMYCIN		
	537		OXYTOCIN	10 units / 1000 mL	1
MORPHINE	2738		MORPHINE	250 mL	
OREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	
OPAMINE	1734		DOPAMINE	40 mg / 1 mL	5
DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg/mL	
OOPAMINE 400 M	1640		DOPAMINE 400 MG	mg/mL	

- 2. From the Source List, click Add.
- 3. Select the Generic Name for the medication entry from the drop-down list.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.
- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a medication name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

	Source List: Add Rule Set		×
	Generic Name (Ex	ternal ID)(Strength / Volume){Do	
	ACYCLOVIR (1701) (500 MG / 10 ML) {VIAL}		*
	Displayed Name:	Therapeutic Class:	Class ID:
	ACYCLOVIR	ANTIVIRALS (SYSTEMIC)\1	08:18.00
	Summary: ACYCLOVIR 500 mg	g / 10 mL Dosed in mcg/kg/hr	
	Rule Sets:		
(4)	- Full		
$\bigcirc$	Concentration		
	Medication Amount: Medication Unit:	Diluent Amount: mL	
-	500 mg	✓ 10	
(5)			
	Dosing Unit: LHL:	LSL:	USL: UHL:
	mcg/kg/hr 💉 1		
(6)			I
$\bigcirc$			
	S <u>a</u> ve & Add Another	Save & Close Cancel	

- 4. Select Full (if not already selected) from the Rule Sets drop-down list.
- 5. Select the Medication Unit and enter a Medication Amount (optional) and Diluent Amount (optional).
- 6. Select the dosing unit and type the values for soft and hard limits. (You must specify at least one limit.)
- 7. Click Save & Add Another or Save & Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

#### To add a Limited rule set medication entry to the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

-Source List: Master D Master Drug Formul	ary 🔽	lary Add	Edit	View Delete	(2
Master Drug Formula ICU 2 North	ary	nal ID	Displayed Name	Concentration (or Container Volume)	
5 West			No Drug Selected		
Medicine			CLINDAMYCIN		
OXYTOCIN	537	1	OXYTOCIN	10 units / 1000 mL	
MORPHINE	2738		MORPHINE	250 mL	
NOREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	
DOPAMINE	1734		DOPAMINE	40 mg / 1 mL	
DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg/mL	
DOPAMINE 400 M	1640		DOPAMINE 400 MG	mg /mL	
Contraction and a set of the set	har and the second	a		and a second	

- 2. From the Source List, click Add.
- 3. Select the Generic Name for the medication entry from the drop-down list.
- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.
- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a displayed name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

	Source List: Add Rule Set	×
	Generic Name (External ID) (Strength / Volume) {Dosage Form}:	
	DOXYCYCLINE (1549) (10 MG / 1 ML) {**}	-
	Displayed Name:         Therapeutic Class:         Class ID:           DOXYCYCLINE         TETRACYCLINES         08:12.24	
	Summary: DOXYCYCLINE 5 mL Dosed in mL/hr	
	Rule Sets:	
(5)	Container Volume: mL 5	
<u> </u>	Dosing Unit:         LHL:         LSL:         USL:         UHL:           mL/hr         I         2         3         4	
	Save & Add Another Save & Close Cancel Help	

- 4. Select Limited from the Rule Sets drop-down list.
- 5. Type the Container Volume amount (optional).
- 6. Select mL/hr and enter the values for soft and hard limits. (You must specify at least one limit.)
- 7. Click Save & Add Another or Save & Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

#### To add a Label Only medication entry to the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

ſ	Source List: Master D	)rug Formu	lary			
	Master Drug Formul	ary 🔽	Add	Edit	View Delete	
	Master Drug Formula	ary				ş
	ICU		nal ID	Displayed Name	Concentration (or Container Volume)	
	2 North				(or container volume)	
	5 West			No Drug Selected		
	Medicine			CLINDAMYCIN		
	OXYTOCIN	537	1	OXYTOCIN	10 units / 1000 mL	
	MORPHINE	2738		MORPHINE	250 mL	
	NOREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	5
	DOPAMINE	1734		DOPAMINE	40 mg / 1 mL	1
	DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg /mL	
	DOPAMINE 400 M			DOPAMINE 400 MG	mg /mL	
h.		har of the second	a - 1 - 1 - 1	and the second states of the	and the second s	/

- 2. From the Source List, click Add.
- 3. Select the Generic Name for the medication entry from the drop-down list.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- Note: Selecting a Generic Name from the drop-down list automatically populates the Displayed Name, External ID, Therapeutic Class, and Class ID fields.
- **Note:** The **Displayed Name** field cannot be left blank. The maximum number of characters in a displayed name is determined by how it is displayed on the infuser screen after it is downloaded. Depending on character width, the maximum number of characters allowed in a medication name can vary from 17 to 29.
- **Note:** If the desired generic name is not in the **Generic Name** drop-down list (or if no generic names appear in the list), you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

Source List: Add Rule Set			X		
Generic Name (External ID) (Strength / Volume) {Dosage Form}:					
VANCOMYCIN (577) (500 MG / 10 ML) {VIAL}			*		
Displayed Name:	Therapeutic Class:	Class ID:			
VANCOMYCIN	ANTIBACTERIALS MISCELLANEO	08:12.28			
Summary: VANCOMYCIN Rule Sets: Label Only					
Save & Add Another	Save & Close	Help			

- 4. Select Label Only from the Rule Sets drop-down list.
- 5. Click Save & Add Another or Save & Close to add the medication entry to the Master Drug Formulary.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to any CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To edit a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary as the Source List.

-Source List: Master D	)rug Formu	lary			3
Master Drug Formu	lary 🔽 🗸	Ado	J Edit	View Delete	Ċ
Master Drug Formul	ary				1 I I I I I I I I I I I I I I I I I I I
ICU		nal ID	Displayed Name	Concentration (or Container Volume)	
2 North				(or container voidme)	
5 West			No Drug Selected		
Medicine			CLINDAMYCIN		
	537		OXYTOCIN	10 units / 1000 mL	
MORPHINE	2738		MORPHINE	250 mL	
NOREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	5
DOPAMINE	1734		DOPAMINE	40 mg / 1 mL	
DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg/mL	
DOPAMINE 400 M			DOPAMINE 400 MG	mg /mL	
a har an and a weak proved	والمستحرب والمراجع		and the second s	and a second	,

- 2. From the Source List, select the medication entry you want to edit.
- 3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

4. Make changes as desired.

DOPAMINE 400 MG-D5W (1640) ( / 250 ML) {IV BAG}					
Displaye	ed Name:	Therapeutic Cla	55:	Class ID:	
DOPamine		BETA-ADRENERGIC AG	ONISTS 12:12.08		
Summar	v: DOPamine 400 mg	/ 250 mL Dosed in mcg	ulka (min		
Full Concentration Medication Amount: 400		: Diluent Amount: m			
Dosing Unit:	LHL:	LSL:	USL:	UHL:	
mcg/kg/min 🛛 🗸 🗸	1				

- 5. Click Save & Close to save changes.
- **Important:** Changing the dosing unit or medication unit will erase all previously entered limits.
  - **Note:** When a medication entry is edited, the changes are reflected in the Master Drug Formulary and in all CCAs in which the medication is listed.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To view a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

	Source List: Master D Master Drug Formula Master Drug Formula	ary 🔽	lary Add	Edit	View Delete	(
	ICU 2 North	,	nal ID	Displayed Name	Concentration (or Container Volume)	
	5 West			No Drug Selected	)	[
	Medicine			CLINDAMYCIN		
	OXYTOCIN	537		OXYTOCIN	10 units / 1000 mL	
	MORPHINE	2738		MORPHINE	250 mL	
	NOREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	1 · · · · ·
	DOPAMINE	1734		DOPAMINE	40 mg / 1 mL	
	DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg/mL	
	DOPAMINE 400 M	1640		DOPAMINE 400 MG	mg /mL	
Ы	and the second second second	and the second	a		and a second sec	,

- 2. From the Source List, select the medication entry you want to view
- 3. Click View.
- 4. Click Close to exit the screen.

Source List: View Rule	Set				×	
Generic Name (External ID) (Strength / Volume) {Dosage Form}:						
DOPAMINE 400 MG-D5W (1640) ( / 250 ML) {IV BAG}						
Displayed Na	ime:	Therapeutic Clas	s:	Class ID:		
DOPAMINE 400 MG		BETA-ADRENERGIC AGO	NISTS 12:12.08			
Summary: D	OPAMINE 400 MG	mg / mL Dosed i	in mcg/kg/min			
Rule Sets:						
Full 🗸						
Medication Amount:	Medication Unit:	Diluent Amount: mL				
	ng	×				
Dosing Unit:	LHL:	LSL:	USL:	UHL:		
mcg/kg/min 🛛 😽 1						
	(					
	l					

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To delete a medication in the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

Source List: Master E	)rug Formu	lary			1
Master Drug Formu		Add	Edit	View Delete	3
Master Drug Formul ICU 2 North		nal ID	Displayed Name	Concentration (or Container Volume)	
5 West			No Drug Selected		
	537		OXYTOCIN	10 units / 1000 mL	
MORPHINE	2738		MORPHINE	250 mL	
NOREPINEPHRINE	241		NOREPINEPHRINE	4 mg / 4 mL	5
DOPAMINE	1734		DOPAMINE	40 mg / 1 mL	
DEXT 5% 1/4NSS	2443		DEXT 5% 1/4NSS	mg/mL	
DOPAMINE 400 M	1640		DOPAMINE 400 MG	mg /mL	
a second s	سيتجرب ورياه	a	and the second states of the s	and a second	,

2. From the Source List, select the medication entry you want to delete.

	Generic Name (Ex	ternal ID) (Strength / Volume)	) {Dosage Form}:		
DOPAMINE 400 MG-D5W (1640) ( / 250 ML) {IV BAG}					
Displayed N	ame:	Therapeutic Class:		Class ID:	
DOPAMINE 400 MG		BETA-ADRENERGIC AGONI	BETA-ADRENERGIC AGONISTS 12:12.08		
Summarv: [	OPAMINE 400 MG	i mg / mL Dosed in i	mca/ka/min		
-					
Rule Sets:					
iuli 🗡					
Concentration					
Medication Amount:	Medication Unit:	Diluent Amount: mL			
	mg	<u>×</u>			
	LHL:	LSL:	USL:	UHL:	
Docing Upity		CDC,	ODE.	One.	
Dosing Unit:	1				
Dosing Unit: ncg/kg/min 🛛 🗸	l				
_	L				
_	1				
_	1				

3. Click Delete.

The following pop-up will display only if the medication entry is assigned to one or more CCA.

🗹 Delete Medication 🛛 🛛 👂	×
Deleting this medication entry will remove it from the master formulary as well as from the following CCAs: ICU	
OK Cancel	-

4. Click OK.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To copy to Target CCA:

- 1. Select a medication entry from the Master Drug Formulary.
- **Note:** A Target List CCA must be selected before you can copy a medication entry to a Target CCA from the Master Drug Formulary.
  - 2. Click Copy to Target CCA.

Master Drug Formul	ary 🔽 🖊 Add	j Edit	View Delete		Сору	to Target CCA
Generic Name	External ID	Displayed Name	Concentration (or Container Volume)	Rule Set	Dosing Unit	Lower Hard Limit
No Drug Selected		No Drug Selected		Label Only		
CLINDAMYCIN	1421	CLINDAMYCIN		Label Only		
MORPHINE	2738	MORPHINE	250 mL	Limited	mL/hr	
NOREPINEPHRINE	241	NOREPINEPHRINE	4 mg / 4 mL	Full	mL/hr	
DOPAMINE	1734	DOPAMINE	40 mg / 1 mL	Full	mL/hr	1
DEXT 5% 1/4NSS	2443	DEXT 5% 1/4NSS	mg /mL	Full	mL/hr	

3. Click Copy on the Confirm Copy to CCA pop-up.

Confirm	Copy to CCA						
Copy from:	Master Drug Formulary						
Copy to:	2 East						
Medication	Medication Entries						
DOPAMIN	IE 40 mg / 1 mL						
	Copy Cancel Help						

# **Chapter 10: LifeCare PCA Medication Entries**

# Overview

In this chapter you will learn to define clinical decision rules for medications in the LifeCare PCA drug library.

Hospira MedNet Meds software enables you to customize dose rate limits for medications used in drug libraries. You can customize clinical decision rules for up to 18 different clinical care areas (CCAs) in the hospital and up to 25 medication entries in each CCA.

# **Defining Rule Sets**

Medication entries in the LifeCare PCA drug library can be created with specific dose rate limits. Selected fields are required and all other fields are optional.

The required fields for a LifeCare PCA medication entry are:

- Generic name
- Displayed name
- Medication amount and unit
- Diluent amount
- One bar code identifier

You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA are automatically added to the Master Drug Formulary.

Within a CCA, no two medication entries may have exactly the same External ID and Concentration. Also, no two medication entries may have exactly the same Displayed Name and Concentration.

In the Master Drug Formulary, two medication entries may have the same displayed name, medication amount, medication unit, diluent amount, and dosing units as long as one or more of the limits for loading dose, PCA dose, continuous rate, and dose limit are different:

- Lower soft limit (LSL)
- Lower hard limit (LHL)
- Upper soft limit (USL)
- Upper hard limit (UHL)

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# **Setting Dose Limits**

Hospira MedNet Meds allows you to define dose rate limits for the loading dose, PCA dose, continuous rate, and dose limit. It is important that you understand how the limits function so please read this section carefully.

You can define upper and lower soft and hard limits as part of the rule set for each medication entry you create in the library. As you configure the limits, the software enforces the following rules:

Lower Hard Limit (LHL) < Lower Soft Limit (LSL) <= Upper Soft Limit (USL) < Upper Hard Limit (UHL)

*Soft limits* are dose rate limits that can be overridden when programming the infuser. When a value entered on the infuser is lower than the lower soft limit or higher than the upper soft limit, the infuser displays a soft limit override confirmation message. The infuser records soft limit alerts and the users' responses to the alerts to its history logs.

For example, if the upper soft limit is set to 1.8 mg and the clinician enters 2 mg, the infuser will display a soft limit override alert. This alert notifies the clinician that the entry is outside the range of the soft limits set for that medication in the drug library. The clinician can choose to continue programming using the override, or cancel the override and edit the value. The alert and the clinician's response are recorded in the infuser's history log.

*Hard limits* are dose rate limits that cannot be overridden; the infuser cannot be programmed with a rate that is lower than a lower hard limit or higher than an upper hard limit. Hard limit alerts are recorded in the infuser's history log.

If a Lower Hard Limit (LHL) or an Upper Hard Limit (UHL) are not specified in the rule set, the prescription drug limits will function as the LHL or UHL.

# **Medication Entry Rules and Conventions**

The Hospira MedNet Meds software uses the following conventions for the LifeCare PCA medication entries:

- Entry of upper hard and soft limits and lower hard and soft limits is optional, not required.
- You can create medication entries by adding them to the Master Drug Formulary or by adding them directly to a CCA. Medication entries added to a CCA Target List are automatically added to the Master Drug Formulary List.
- "Validity" messages appear in red at the bottom of the Rule Set window. When you enter a value that is not allowed, the message specifies the defined range for the field, or the reason the value is not permitted.
- Displayed Name cannot contain comma (,) or double-quote (") characters. Most other special characters, as well as all alphabetic and numeric characters, are acceptable.
- Once you select a medication unit, the dosing unit field will display only the enabled unit type.
- The software prohibits invalid numeric entries and signals such with an audible "beep."
- You may use the vertical and horizontal scroll bars to navigate to an entry.
- If you do not select or populate a required field, an error message appears.
- When you highlight an entry on the Drug Library Management list view, buttons or features that are not allowed appear as "grayed" or disabled.
- When you add a new medication in the Generic Name field of the rule set window, you may search for a medication by typing the first few characters of its generic name. The drop-down list will navigate to show any matching medications.

## The LifeCare PCA Medication Rule Set

The Rule Set window, seen below, enables you to configure a medication entry for the LifeCare PCA drug library.

Target List: Add Rule Set	t					×
		Generic Name (B	External ID)(Strength / Vo	olume) (Dosage Fi	orm}:	
Fentanyl (EXT_ID_046) {D	Description_1_Include)	ł				Select
Displayed Name:	Therape	eutic Class:	Class ID	:		
Fentanyl	Class_Descr_46		class_46			
	Fentanyl / _	_mL Dosed in				
Concentration Medication Amount:	Medication Unit: Select	Diluent Amount: mL	Displayed Concentral	tion:		
Bar Codes						
Bar Code 1:	Ba	ar Code 2:	Bar Code 3:		3ar Code 4:	Bar Code 5:
	I	]				
Loading Dose/Supplement	al Loading Dose					
Dosing Unit	LHL:	LSL:	USL:	UHL:		
PCA Dose						
Dosing Unit	LHL:	LSL:	USL:	UHL:	Lockout Min Intervals <mark>5</mark>	. Max.
Continuous Rate						
Dosing Unit/hr	LHL:	LSL:	USL:	UHL:	_	
	[					
Dose Limit						
	Time Interval:	USL:	UHL:			
4-1	hours 🔽					
Please specify M	edication Uni	t.				
		Save & Add Anothe	er Save & Close	Cancel	Help	

## **Rule Set Fields**

The following table lists the fields, a brief description, and allowed value range for the infuser.

Field	Description	Allowable Range
Generic Name	The medication name from your Medication List. It is selected from the drop-down list and displays the External ID (the hospital's identifier for a medication). Strength/Volume and Dosage Form display if defined in the Medication List.	Not editable in the Rule Set
Displayed Name	The name that will be displayed on the infuser.	<ul> <li>Varies depending on the character width</li> <li>Cannot be blank</li> <li>Displayed Name cannot contain comma (,) or double-quote (") characters. All alphabetic and numeric characters are acceptable.</li> </ul>
Therapeutic Class	The therapeutic class assigned to the medication entry.	Not editable in the Rule Set
Class ID	The ID of the therapeutic class assigned to the medication entry.	Not editable in the Rule Set
Medication Amount	Allows you to enter the medication amount in the units selected.	<ul><li>For mg: 0.1–999.9</li><li>For mcg: 1–15,000</li></ul>
Medication Unit	Allows you to select the unit of measure for your medication amount.	mcg or mg
Diluent Amount	Allows you to set the total volume of the PCA vial.	1–30 mL
Displayed Concentration	The concentration of medication per mL.	Calculated by the software as Medication Amount divided by Diluent Amount
Bar Codes	Allows you to enter up to five (5) different bar codes for each medication entry.	<ul> <li>Numeric or alphanumeric</li> <li>Each bar code must be unique.</li> <li>At least one bar code is required.</li> <li>The printed bar code length must be less than 4.2 cm (about 16-17 characters in a typical font).</li> <li>Enter the bar code value without any space or punctuation characters such as parentheses.</li> </ul>
Dosing Unit	The dosing unit for the medication.	The dosing unit field automatically populates once the medication unit is selected
Dose Limit	Allows you to specify the amount of medication that can be administered via PCA dose and continuous delivery in a rolling time period.	<ul> <li>Choices include one (1), four (4), six (6), or twelve (12) hours.</li> <li>Default time interval = four (4) hours (required).</li> </ul>

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Field	Description	Allowable Range			
LHL, LSL, USL, UHL	Lower hard limit, lower soft limit, upper soft limit, upper hard limit. Allows you to set the upper and/or lower limits for loading dose, PCA dose, continuous rate, and dose limit for the selected medication. Upper Soft Limit (USL) and Upper Hard Limit (UHL) entries are optional.	Loading dose -From 0.1 x concentration to 10 x concentration -Not less than 0.1 mg or 1 mcg -Not more than 500 mg or 5000 mcg PCA dose -From 0.1 x concentration to 5 x concentration -Not less than 0.1 mg or 1 mcg -Not more than 250 mg or 2500 mcg Continuous rate -From 0.1 x concentration to 20 x concentration -Not less than 0.1 mg/hr or 1 mcg/hr -Not more than 999.9 mg/hr or 9999 mcg/hr -Not more than 250 mL/hr Dose limit (Upper Soft and Hard Limit only) -From 0.1 x concentration to (20 x concentration x period)			
		-Not less than 0.1 mg or 1 mcg -Not more than 999.9 mg or 9999 mcg -Dose limit period is 1 hour, 4 hours, 6 hours, or 12 hours			
Lockout Interval	Determines the minimum and maximum amount of time between PCA and/or loading doses.	Limited to the minimum and maximum values set for the CCA associated with the medication entry			

## LifeCare PCA Prescription Delivery Limits

The LifeCare PCA infuser enforces Prescription Delivery limits for Loading Dose, PCA Dose, Continuous Rate, and Dose Limit. The exact limits enforced depend on the concentration of the medication. See the table below, applicable to all medications.

**Note:** Drug and concentration selections are rounded up to the nearest tenth of a digit for mg/mL values or to the nearest digit for mcg/mL values. Minimum delivery rate is 0.1 mL/hr for concentrations between 0.1 and 1.0 mg/mL.

Concentra-	Loading	PCA	Continuous	1 Hour	4 Hour	6 Hour	12 Hour
tion (C)	Dose	Dose	Rate (per hr)	Limit	Limit	Limit	Limit
0.1–50 mg/mL 1-500 mcg/mL	[0.1-10] x C	[0.1-5] x C	[0.1-20] x C	[0.1-20] x C	[0.1-80] x C	[0.1-120] x C	[0.1-240] x C

The Rule Set window displays the Prescription Delivery Limits next to each rule set type (Loading Dose, PCA Dose, Continuous Rate, and Dose Limit) once a medication has been selected and its concentration has been defined.

These limits are enforced by the infuser as hard limits, regardless of whether hard limits have been explicitly defined in Hospira MedNet Meds. Hospira MedNet Meds prevents the user from entering a hard limit value which will violate these limits.

**Note:** Hospira MedNet Reports will contain data for hard limits alerts encountered by the user regardless of whether the limit is one that is explicitly defined in Hospira MedNet Meds or one that is enforced by the infuser.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Navigate to the LifeCare PCA Rule Set Window

The procedures in this chapter begin at the Rule Set window. To navigate to the Rule Set window, follow the path listed below:

Library Directory -> Drug Library Worksheet - LifeCare Infuser Type -> Drug Library Management view

## **Step-by-step Procedures**

The following section provides step-by-step procedures that will enable you to create and manage medication entries. In this section you will learn to do the following:

- Add a medication entry in a CCA
- Edit a medication entry in a CCA
- View a medication entry in a CCA
- Remove a medication entry from a CCA
- Add a medication entry in the Master Drug Formulary
- Edit a medication entry in the Master Drug Formulary
- View a medication entry in the Master Drug Formulary
- Delete a medication entry from the Master Drug Formulary
- Copy a medication entry from the Master Drug Formulary to a Target CCA

To display the **Rule Set** window, open a Worksheet and click **Add** or **Edit**. (For instructions on opening a Worksheet, see **Chapter 5: The Library Directory**, on page 27.)

#### To add a medication entry in a CCA:

- 1. Select the desired CCA as the Target List.
- 2. From the Target List, click Add.

I Hospira MedNet™ Me	ds™- PCA User Guide
Drug Library Management	Reports   CCA Setup   Master Infuser Setup   Protocols
Einalize	2
Target List: ICU	
ICU	Add Edit View Remove
Loading Dose PCA Dos	se Continuous Rate Dose Limit

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

3. Highlight a medication from the Select a Medication screen.

Generic Name		External ID	Strength	Volume	Dosage Form	
amotidine	Famotidine	EXT_ID_045			code_3	
entanyl uconazole	Fentanyl Fluconazole	EXT_ID_046 EXT_ID_047			code_4 code_5	
	1 10001102016	LX1_10_047				
Generic Name (External ID) (Strength / Volume) {Dosage Form}: Fentanyl (EXT_ID_046) {Description_1_Include}						
entanyi (EXT_ID_04		ric Name (External ID)(	(Strength / Vo	olume) (Do	sage Form}:	

- **Note:** Selecting a **Generic Name** from the medication list automatically populates the **Displayed Name**, **External ID**, the **Therapeutic Class**, and the **Class ID** fields.
  - 4. Click Select Medication to access the Rule Set.

Target List: Add Rule Set					<u>د</u>
		Generic Name (Ex	ternal ID) (Strength / Volume	) {Dosage Form}:	
Fentanyl (EXT_ID_046) {De	scription_1_Include}				Select
Displayed Name:	Therapeuti	c Class:	Class ID:		
Fentanyl	Class_Descr_46		class_46		
	entanyl/r	nL Dosed in			
Concentration					
	Medication Unit: Dil	uent Amount: mL	Displayed Concentration:	-	
			1		
-Bar Codes					
Bar Code 1:	Bar C	Code 2:	Bar Code 3:	Bar Code 4:	Bar Code 5:
	1	1		1	
Loading Dose/Supplemental	-				
Dosing Unit		LSL:	USL:	UHL:	
PCA Dose					
Dosing Unit	LHL:	LSL:	USL:	UHL: Lockout Intervals	Min. Max.
					5 120
Continuous Rate					
Dosing Unit/hr		LSL:	USL:	UHL:	
Dose Limit					
Dosing Unit Ti	me Interval:	USL:	UHL:		
<b>1</b>					
Please specify Me	dication Unit.				
		Save & Add Another	Save & Close <u>C</u>	ancel <u>H</u> elp	

**Note:** The **Displayed Name** can be edited once populated. The maximum number of characters in the **Displayed Name** is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in the displayed name can vary from 10 to 16.

<sup>2</sup> Hospira MedNet Meds Software User Guide Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 5. You can edit the Medication Amount, the Medication Unit, and the Diluent Amount. The Displayed Concentration is calculated based on the data entered into these fields.
- **Note:** The dosing units for Loading Dose, PCA Dose, Continuous Rate, and Dose Limit automatically populate after the medication unit is selected.
  - 6. Enter the bar codes for the medication. At least one bar code is required to save the medication entry.
- **Note:** You can use a PC-based bar code scanner (one that attaches to the PC via a "keyboard wedge") in order to populate the bar code value. To do this, select a bar code field and scan the bar code on the medication vial. The scanner will read the medication bar code and populate the bar code field with the scanned value.
  - 7. Enter soft and hard limits for Loading Dose (optional).
  - 8. Enter soft and hard limits for PCA Dose (optional).
- **Note:** The minimum and maximum values for the lockout intervals automatically populate based on the range defined for the CCA.
  - 9. Enter soft and hard limits for Continuous Rate (optional).
  - 10. Enter the time interval and upper soft or hard limits for Dose Limit (optional).
- **Note:** When a soft or hard Dose Limit is entered, the clinician MUST always enter a Dose Limit on the infuser during programming.
  - 11. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

#### To edit a medication entry in a CCA:

- 1. Select the CCA containing the medication entry you want to edit from the **Target List** drop-down.
- 2. From the Target List, select the medication entry you want to edit.

🗹 Hos	spira MedNet™	Meds™ - PCA	User Guide		I
Drug L	Library Manageme	ent Reports (	CCA Setup 🛛 Master I	nfuser Setup   Protoco	ols
Ein	alize				
Targ	get List: ICU —				
ICU	J	•	Add Edit	View Ren	nove
Loa	ading Dose PCA	Dose Continu	ous Rate Dose Limit	]]	
		Dose Continu External ID	ous Rate Dose Limit Displayed Name	Container Concentration	Displayed
<b>^</b>	Generic Name	External ID		Container	
Fent	Generic Name	External ID EXT_ID_046	Displayed Name	Container Concentration	Concentration
► Fent	Generic Name tanyl tanyl	External ID EXT_ID_046 EXT_ID_046	Displayed Name Fentanyl PCA	Container Concentration 300 mcg / 30 mL	Concentration 10 mcg/mL

3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- **Note:** A Medication Rule Set can be edited once a medication is assigned to a protocol without having to delete the protocol. However, if the rule set is being used by one or more protocols; medication, concentration, and time interval information cannot be edited.
  - 4. Make changes as needed.
- **Note:** You cannot change the Therapeutic class or the Class ID when editing a medication entry in a CCA.
  - 5. Click Save & Close to save your changes.
- **Note:** If the medication is assigned to another CCA, a new medication is created in the Master Drug Formulary. If the medication is <u>not</u> assigned to another CCA, the changes are applied to both the medication in the CCA and the medication in the Master Drug Formulary.

	isplayed Name:	) {Description_1_Includ	ue) <sup>,</sup>				
	isplayed Name:						
Fentar		Thera	apeutic Class:	Class ID:			
	yl			1			
		y: Fentanyi 250 m	cg / 5 mL Dosed in mc	g			
	entration	Medication Unit:	Diluent Amount: mL	Displayed Concentrati			
250		mcg	5	50 mcg/mL	ion:		
2.30		Incg -		Joo megyme			
Bar C	odes						
	Bar Code 1:		Bar Code 2:	Bar Code 3:		Bar Code 4:	Bar Code 5:
751							
Loadi	ng Dose/Suppleme	ental Loading Dose [5	- 500 mcg]				
C	osing Unit	LHL:	LSL:	USL:	UHL:		
mcg							
-PCA I	Dose [5 - 250 mcg						
	iosing Unit	LHL:	LSL:	USL:	UHL:	Lockout Min.	Max.
mcg			1		0.121	Intervals 5	120
				, ,		,	,
	nuous Rate [5 - 1						
	sing Unit/hr	LHL:	LSL:	USL:	UHL:	_	
mcg,	inr J		J <b>I</b> J				
[Dose	Limit [5 - 4000 ma	cg]					
	osing Unit	Time Interval:	USL:	UHL:			
mcg		4-hours 🗾					

#### To view a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to view from the **Target** List drop-down.

Drug Library Managem	ent Reports	CCA Setup   Master I	nfuser Setup   Protoco	ols
<u>F</u> inalize			/	/
Target List: ICU -				
ICU	-	Add Edit	View Rer	nove
Loading Dose PC	A Dose   Continu		」 <u></u> 」 <u></u>	
Loading Dose PC	A Dose   Continu		」 <u></u> 」 <u></u>	Displayed
		ious Rate Dose Limit	Container	Displayed
Generic Name	External ID EXT_ID_046	ous Rate Dose Limit Displayed Name	Container Concentration	Displayed
Generic Name	External ID EXT_ID_046	ous Rate Dose Limit Displayed Name Fentanyl PCA	Container Concentration 300 mcg / 30 mL	Displayed Concentration 10 mcg/mL

- 2. Select a medication.
- 3. Click View.
- 4. Click Close to exit the screen.

Target List: View Rule Set			×
Ger	<b>neric Name</b> (External ID) (Strength / Vo	ume) {Dosage Form}:	
Fentanyl (EXT_ID_046) {Description_1_Include}			Select
Displayed Name: Therapeutic Cla:	s: Class ID:		
Fentanyl			
Summary: Fentanyl 250 mcg / 5 mL	Dosed in mcg		
Concentration Medication Amount: Medication Unit: Diluent 250 mcg S	Amount: mL Displayed Concentrati	on:	
Bar Codes Bar Code 1: Bar Code	2: Bar Code 3:	Bar Code 4:	Bar Code 5:
751			
Loading Dose/Supplemental Loading Dose [5 - 500 mcg]			
	LSL: USL:	UHL:	
mcg			
PCA Dose [5 - 250 mcg]			
Dosing Unit LHL:	LSL: USL:	UHL: Lockout Min. Intervals 5	Max.
Continuous Rate [5 - 1000 mcg/hr]			
	LSL: USL:	UHL:	
mcg/hr			
Dose Limit [5 - 4000 mcg]			
mcg 4-hours			
		1	
	<u>C</u> lose <u>H</u> elp		

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To remove a medication entry from a CCA:

1. Select the CCA containing the medication entry you want to remove from the **Target** List drop-down.

🚽 Hospira MedNet™	'Meds™-PCA	User Guide				
Drug Library Manageme	ent Reports	CCA Setup   Master I	infuser Setup   Protoco	ols		
Einalize						
Target List: ICU —						
ICU Add Edit View Remove						
	<b>_</b>	Add Edit	View Rer	nove		
	A Dose Continu	uous Rate Dose Limit		nove		
	Dose Continu External ID			Displayed		
Loading Dose PCA	· ·	uous Rate Dose Limit	t Container	Displayed		
Loading Dose PCA	External ID	Jous Rate Dose Limit	Container Concentration	Displayed		
Loading Dose PCA Generic Name Fentanyl Fentanyl	External ID EXT_ID_046	Jous Rate Dose Limit Displayed Name Fentanyl PCA	t Container Concentration 300 mcg / 30 mL	Displayed Concentration 10 mcg/mL		

- 2. Select a medication.
- 3. Click Remove.

🗹 Confirm Remove from CCA	×
Remove from: ICU	
Medication Entries	
Fentanyl 250 mcg / 5 mL	-
Remove Cancel Help	

4. Click Remove on the Confirm Remove from CCA pop-up.

Note: The medication entry is not removed from the Master Drug Formulary.

# Working with the Master Drug Formulary

The Master Drug Formulary can contain medication entries not assigned to a CCA, to facilitate later use. The maximum number of medication entries in the Master Drug Formulary is 585, of which 100 unique medication entries can be assigned to CCAs. For example, *Morphine 1 mg/mL* would be considered as one unique medication entry whether it is assigned to one or more CCAs.

**Note:** Refer to Rule Set Fields on page 169 for information on allowable ranges.

#### To add a medication entry in the Master Drug Formulary:

- 1. Select Master Drug Formulary as the Source List.
- 2. From the Source List, click Add.

Master Drug Formul		Add Edit	Vie <u>w</u> Deļ	ete
	A Dose Continue	1	Container	Displayed
Generic Name	🔺 External ID	Displayed Name	Concentration	Concentration
Clindamycin	EXT_ID_031	Clindamycin	100 mg / 5 mL	20 mg/mL
Fentanyl	EXT_ID_046	Fentanyl	250 mcg / 5 mL	50 mcg/mL
Fentanyl	EXT_ID_046	Fentanyl PCA	300 mcg / 30 mL	10 mcg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	4 mg / 1 mL	4 mg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	6 mg / 30 mL	0.2 mg/mL
				•

3. Highlight a medication from the Select a Medication screen.

Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	
Famotidine	Famotidine	EXT_ID_045			code_3	
Fentanyl	Fentanyl	EXT_ID_046			code_4	
Fluconazole	Fluconazole	EXT_ID_047			code_5	
Fentanyl (EXT_ID_046)		Name (External ID)	(Strength / Vo	olume) (Do	sage Form}:	

- Note: Selecting a Generic Name from the medication list automatically populates the Displayed Name, External ID, the Therapeutic Class, and the Class ID fields.
  - 4. Click **Select Medication** to access the Rule Set.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Note: Selecting a Generic Name from the medication list automatically populates the Displayed Name, External ID, the Therapeutic Class, and the Class ID fields.

Class_Descr_46  Fentany1 / Medication Unit: Select	utic Class:	Class ID: class_46 Displayed Concentrat Bar Code 3:	tion:	r Code 4:	Bar Code 5:
Class_Descr_46  : Fentany1 / Medication Unit: Select Ba	_ <b>mL Dosed in</b> Diluent Amount: mL	class_46 Displayed Concentrat	tion:	r Code 4:	Bar Code 5:
Fentanyl / Medication Unit: Select Ba	Diluent Amount: mL	Displayed Concentrat		r Code 4:	Bar Code 5:
Medication Unit:	Diluent Amount: mL			r Code 4:	Bar Code 5:
Select				r Code 4:	Bar Code 5:
Select				r Code 4:	Bar Code 5:
Ba	ar Code 2:	Bar Code 3:	Ba	r Code 4:	Bar Code 5:
	ar Code 2:	Bar Code 3:	Ba	r Code 4:	Bar Code 5:
	ar Code 2:	Bar Code 3:	Ba	r Code 4:	Bar Code 5:
ntal Loading Dose					
ntal Loading Dose ——					
LHL:	LSL:	USL:	UHL:	1	
	LSL:		UHL:		Max.
				P	120
	1.01	1161			
LHL:	LSL:		UHL:	1	
				]	
Time Televisit					
	051:	UHL:			
Medication Unit	t.				
	LHL:	LHL: LSL:	LHL: LSL: USL: Time Interval: USL: UHL:	LHL: LSL: USL: UHL: Time Interval: USL: UHL: hours value of the second	LHL: LSL: USL: UHL:

- **Note:** The **Displayed Name** can be edited once populated. The maximum number of characters in a **Displayed Name** is determined by how it is displayed on the infuser screen. Depending on character width, the maximum number of characters allowed in a medication entry can vary from 10 to 16.
  - 5. Enter the Medication Amount, select the Medication Unit, and enter the Diluent Amount. The displayed concentration is calculated based on the data entered into these fields.
- **Note:** The dosing units for Loading Dose, PCA Dose, Continuous Rate, and Dose Limit automatically populate after the medication unit is selected.
  - 6. Enter the bar codes for the medication. At least one bar code is required to save the medication entry.
  - 7. Enter soft and hard limits for Loading Dose (optional).
  - 8. Enter soft and hard limits for PCA Dose (optional).
- **Note:** The minimum and maximum values for the lockout intervals automatically populate based on the range defined for the CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 9. Enter soft and hard limits for Continuous Rate (optional).
- 10. Enter the time interval and soft and hard limits for Dose Limit.
- Note: The clinician is prompted on the infuser to enter a Dose Limit for the time interval selected.
  - 11. Click Save & Add Another or Save & Close to add the medication entry to the CCA.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

#### To edit a medication entry in the Master Drug Formulary:

- 1. Select Master Drug Formulary from the Source List.
- 2. From the Source List, select the medication entry you want to edit.
- 3. Click Edit.

	Source List: Master Master Drug Formul	ary 🔽 🔄	lary Add Edit		ete
	Generic Name	🔺 External ID		Container Concentration	Displayed Concentration
	Elindamycin	EXT_ID_031	Clindamycin	100 mg / 5 mL	20 mg/mL 📢
	Fentanyl	EXT_ID_046	Fentanyl	250 mcg / 5 mL	50 mcg/mL
	Fentanyl	EXT_ID_046	Fentanyl PCA	300 mcg / 30 mL	10 mcg/mL 🕴
	Hydromorphone	EXT_ID_054	Hydromorphon	4 mg / 1 mL	4 mg/mL
	Hydromorphone	EXT_ID_054	Hydromorphon	6 mg / 30 mL	0.2 mg/mL j
L	ibrary Name: PCA Us	er Guide		In	fuser: LifeCare PCA

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

- 4. Make any desired changes.
- **Note:** You cannot change the Therapeutic class or the Class ID when editing a medication entry in the Master Drug Formulary.
  - 5. Click Save & Close to save your changes.

Fentanyl (EXT_ID_046	(Description 1 Test		(External ID) (Strength / V	, (5-	,	
Displayed Name:	Ther	apeutic Class:	Class II	):		
Fentanyl			]			
	ry: Fentanyl 250 n	ncg / 5 mL Dosed in m	Cg.			
Concentration						
Medication Amount:		Diluent Amount: mL	Displayed Concentra	ation:		
250	mcg	5	50 mcg/mL			
Bar Codes						
Bar Code :	1:	Bar Code 2:	Bar Code 3:		Bar Code 4:	Bar Code
751						
Loading Dose/Suppler	ental Loading Doce [	5 - 500 mcg]				
Dosing Unit	LHL:	LSL:	USL:	UHL:		
mcg				one.	_	
,	-		11			
PCA Dose [5 - 250 m						
Dosing Unit	LHL:	LSL:	USL:	UHL:	Lockout Min. Intervals 5	Max.
mcg	ļ		I I			120
Continuous Rate [5 -	1000 mcg/hr]					
Dosing Unit/hr	LHL:	LSL:	USL:	UHL:		
mcg/hr						
Dose Limit [5 - 4000 r	ncal					
Dosing Unit	Time Interval:	USL:	UHL:			
mcg	4-hours					
4 1 <sup>1</sup> <sup>1</sup>			,			

**Note:** When a medication entry is edited, the changes are reflected in the Master Drug Formulary and in all CCAs in which the medication is listed.

To view a medication entry in the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

Master Drug Forn	nulary 🔽 📃	A <u>d</u> d Edi <u>t</u>	Vie <u>w</u> De	lete
Loading Dose p	CA Dose Continu	ious Rate   Dose Limi	t]	
Generic Name	🔺 External ID	Displayed Name	Container Concentration	Displayed Concentration
Blood Products	EXT_ID_015	Blood Products	100 mg / 2 mL	50 mg/mL
Ilindamycin	EXT_ID_031	Clindamycin	100 mg / 5 mL	20 mg/mL
Fentanyl	EXT_ID_046	Fentanyl	250 mcg / 5 mL	50 mcg/mL
Fentanyl	EXT_ID_046	Fentanyl PCA	300 mcg / 30 mL	10 mcg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	4 mg / 1 mL	4 mg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	6 mg / 30 mL	0.2 mg/mL
Morphine	EXT_ID_072	Morphine	150 mg / 30 mL	5 mg/mL
Morphine	EXT_ID_072	Morphine	5 mg / 30 mL	0.2 mg/mL
	·		·	•

- 2. From the Source List, select the medication entry you want to view.
- 3. Click View.
- 4. Click **Close** to exit the screen.

urce List: View Rule S	et	Conoric Namo /	External ID) (Strength / V	olumo) (Docene Ec	ml	
entanyl (EXT_ID_046) {	Description 1 Include		External ID) (Strength) V	olume) (bosaye ru	ring:	Select
			ci			
Displayed Name:		eutic Class:	Class ID	:		
			1			
Concentration	Fencanyi 250 mcg	/ 5 mL Dosed in mo	:g			
Medication Amount: 250	Medication Unit:	Diluent Amount: mL	Displayed Concentra 50 mcg/mL	tion:		
Bar Codes						
Bar Code 1:	В	ar Code 2:	Bar Code 3:	E	ar Code 4:	Bar Code 5:
751						
Loading Dose/Supplemen	tal Loading Dose [5 -	500 mcg]				
Dosing Unit	LHL:	LSL:	USL:	UHL:		
mcg						
PCA Dose [5 - 250 mcg]						
Dosing Unit	LHL:	LSL:	USL:	UHL:	Lockout Min.	Max.
mcg					Intervals 5	120
Continuous Rate [5 - 10	00 mcg/hr]					
Dosing Unit/hr	LHL:	LSL:	USL:	UHL:		
mcg/hr						
Dose Limit [5 - 4000 mcg	]					
Dosing Unit	Time Interval:	USL:	UHL:			
mcg 4-	hours 🔽					
		(	Close Help	1		

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To delete a medication entry from the Master Drug Formulary:

1. Select Master Drug Formulary from the Source List.

Master Drug Formul	ary 🗾 🔄	Add Edit	Vie <u>w</u> Deļ	ece
Loading Dose PC	A Dose Continue	ous Rate   Dose Limit	]	
Generic Name	A External ID	Displayed Name	Container Concentration	Displayed Concentration
Clindamycin	EXT ID 031	Clindamycin	100 mg / 5 mL	20 mg/mL
Fentanyl	EXT_ID_046	Fentanyl	250 mcg / 5 mL	50 mcg/mL
Fentanyl	EXT_ID_046	Fentanyl PCA	300 mcg / 30 mL	10 mcg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	4 mg / 1 mL	4 mg/mL
Hydromorphone	EXT_ID_054	Hydromorphon	6 mg / 30 mL	0.2 mg/mL
Morphine	EXT_ID_072	Morphine	150 mg / 30 mL	5 mg/mL
Morphine	EXT_ID_072	Morphine	5 mg / 30 mL	0.2 mg/mL
				4

2. From the Source List, select the medication entry you want to delete.

#### 3. Click Delete.

Source List: Delete Rule !	5et						>
		Generic Name	(External ID) (Strength ;	Volume) {Dosage For	m}:		
Morphine (EXT_ID_072) {	Description_6_Exclude	\$					<u>S</u> elect
Displayed Name:	Therape	utic Class:	Class	ID:			
Morphine							
Summary:	Morphine 5 mg / 3	0 mL Dosed in mg					
Medication Amount:	Medication Unit:	Diluent Amount: mL	Displayed Concent 0.2 mg/mL	ration:			
Bar Codes	,		,				
Bar Code 1:	B	ar Code 2:	Bar Code 3:	Ba	r Code 4:	Bar Code 5:	
658					[		
Loading Dose/Supplement	al Loading Dose [0.1	- 2 mg]					
Dosing Unit	LHL:	LSL:	USL:	UHL:	1		
mg	J				]		
PCA Dose [0.1 - 1 mg]							
Dosing Unit	LHL:	LSL:	USL:	UHL:	Lockout Min. Intervals <mark>5</mark>	Max.	
mg						120	
Continuous Rate [0.1 - 4	mg/hr]						
Dosing Unit/hr	LHL:	LSL:	USL:	UHL:	1		
mg/hr							
Dose Limit [0.1 - 16 mg]							
	Time Interval:	USL:	UHL:				
mg 4-h	iours 🔽		J				
			Delete Cancel	Help			

4. Click **OK** on the **Delete Medication** pop-up.

☑ Delete Medication	×
Deleting this medication entry will remove i the master formulary as well as from the fol CCAs: ICU	
<u>QK</u>	

**Note:** If the selected medication is not attached to a CCA, the medication entry will be removed from the Master Drug Formulary and no pop-up will display.

#### To copy to Target CCA:

- 1. Select a medication entry from the Master Drug Formulary.
- **Note:** A Target List CCA must be selected before you can copy a medication entry to a Target CCA from the Master Drug Formulary.
  - 2. Click Copy to Target CCA.

Master Drug Formu		ous Rate Dose Limi	J	lete		Copy to	Target CCA	
Generic Name	A External ID	Displayed Name	Container Concentration	Displayed Concentration	Dosing Unit	Lower Hard Limit	Lower Soft Limit	U Sol
Blood Products	EXT_ID_015	Blood Products	100 mg / 2 mL	50 mg/mL	mg			
Ilindamycin	EXT_ID_031	Clindamycin	100 mg / 5 mL	20 mg/mL	mg			
Fentanyl	EXT_ID_046	Fentanyl	250 mcg / 5 mL	50 mcg/mL	mcg			
Fentanyl	EXT_ID_046	Fentanyl PCA	300 mcg / 30 mL	10 mcg/mL	mcg			
Hydromorphone	EXT_ID_054	Hydromorphon	4 mg / 1 mL	4 mg/mL	mg			
Hydromorphone	EXT_ID_054	Hydromorphon	6 mg / 30 mL	0.2 mg/mL	mg			
Morphine	EXT_ID_072	Morphine	150 mg / 30 mL	5 mg/mL	mg			
Morphine	EXT_ID_072	Morphine	5 mg / 30 mL	0.2 mg/mL	mg			
			•	•				

3. Click Copy on the Confirm Copy to CCA pop-up.

🗹 Confirm Copy to CCA	×
Copy from: Master Drug Formulary	r
Copy to: ICU	r
Medication Entries	
Hydromorphon 4 mg / 1 mL	

# Chapter 11: Setting Up LifeCare PCA Protocols

#### **Overview**

Note: Only users with the appropriate login privileges are able to setup LifeCare PCA Protocols.

Protocols are frequently used therapy settings stored in the infuser's memory. Protocols can be recalled easily, making it unnecessary for the clinician to program the same therapy setting each time it is needed. You can define up to five protocols for each Clinical Care Area (CCA). The same protocol may be used across CCAs.

Note: First, create a medication entry in the CCA before you define a protocol for that medication.

#### To add a protocol for a medication entry:

1. Display the Protocols view by opening a Worksheet for editing and clicking the **Protocols** tab (for instructions on opening a Worksheet, see **Chapter 5: The Library Directory**, on page 27).

	Hospira MedNet <sup>TM</sup> Meds <sup>TM</sup> - User Guide PEA Drug Library Management   Reports   CCA Setup   Master Infuser Setup Protocols	
2	4 South         Add   Edit View	
-	Protocol Protocol Name Generic Name External ID	•
	Source List: Master Protocol List  Master Protocol List  Add Edit View	3

- 2. Under Target List, select a CCA from the drop-down list.
- 3. Click Add.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

4. Select a medication entry.

Generic Name	External ID	Container Concentration	Time Interval
Ampicillin	EXT_ID_011	250 mg / 5 mL	4-hours
Clindamycin	EXT_ID_031	100 mg / 5 mL	4-hours
DOPamine	EXT_ID_037	400 mcg / 4 mL	4-hours
Ampicillin 1gm	10011	250 mg / 5 mL	4-hours
Morphine	EXT_ID_072	30 mg / 30 mL	4-hours
Fentanyl	EXT_ID_046	300 mcg / 30 mL	4-hours
Hydromorphone	EXT_ID_054	4 mg / 1 mL	4-hours
al			

- 5. Click OK.
- 6. Enter a **Protocol Number** or accept the default number.

	Add Protocol
	Master Protocol List
6	Protocol Number:
7	Protocol Name:
	Generic Name: Morphine
	External ID: EXT_ID_072
	Displayed Name:
	Container Concentration: 30 mg / 30 mL
8	Delivery Mode: Select
	Delivery Parameters
	Dosing Unit:         minutes:           PCA Dose:         Lockout Interval:
9	Continuous Rate:
	Dose Limit: Time Interval:
	Bar Codes
	Bar Code 1:         Bar Code 2:         Bar Code 3:         Bar Code 4:         Bar Code 5:           356
	Please specify Delivery Mode.
	Save Cancel Help

- Note: The protocol number must be unique and cannot be re-used within a drug library. The protocol name, however, can be a duplicate within a drug library.
  - 7. Enter a Protocol Name.
- Note: The Protocol Name is not displayed on the LifeCare PCA infuser.

- 8. Select a **Delivery Mode** from the following choices:
  - a. PCA
  - b. PCA + Continuous
  - c. Continuous
- 9. Based on the delivery mode you have chosen, enter variables for the enabled fields. All enabled fields are required.
- 10. Click Save.
- **Note:** All protocol dosing must be equal to or within the soft limits of the rule set for that medication and concentration (as shown in the **Medication Entry Limits** table). Values must be in the range allowed by the infuser, or an error message appears.

#### To edit a protocol:

- 1. From a Target List CCA, select the protocol to edit.
- 2. Click Edit.

In a MedNet™ Meds™ - User Guide PCA								
Drug Library Ma	Drug Library Management   Reports   CCA Setup   Master Infuser Setup   Protocols							
Terretlist								
larget List:	Target List: 5 West							
5 West	<u>A</u> dd		jew	<u>R</u> emove	from CCA			
Protocol			1	Container				
Number	Protocol Name	Generic Name	External ID	Concentration	Delivery Mode			
1 🕅	1 Morphine PCA Morphine EXT_ID_072 30 mg / 30 mL PCA + Continuous							
5								

3. Enter the desired changes.

#### 4. Click Save.

Edit Protocol					×
CCA: 5 West					
Lockout Interval: 5 - 120 minutes					
Protocol Number: 1			_		
Protocol Name: Morphine PCA					
Generic Name: Morphine	Medication Entry Limits				
External ID: EXT_ID_072	Rule Set Groups	LHL	LSL	USL	UHL
	Loading Dose				
Displayed Name: Morphine PCA	PCA Dose				
Container Concentration: 30 mg / 30 mL	Continuous Rate				
Delivery Mode: PCA + Continuous	Dose Limit				
Delivery Mode: PCA + Continuous					
C Delivery Parameters					
Dosing Unit: PCA Dose: 1 mg Lockout Interval: 1	minutes: 5				
Continuous Rate: 1 mg/hr					
Dose Limit: 20 mg Time Interval:	-hours				
_Bar Codes					
Bar Code 1: Bar Code 2:	Bar Code 3:	Bar Code 4:		Bar Code	• 5:
356					
	,				
Save	<u>Cancel</u> <u>H</u> elp				

**Note:** All protocol dosing must be equal to or within the soft limits of the rule set for that medication and concentration (as shown in the **Medication Entry Limits** table). Values must be in the range allowed by the infuser, or an error message appears.

#### To view a protocol:

- 1. From a Target List CCA, select the protocol to view.
- 2. Click View.

🛃 Hospira M	I Hospira MedNet™ Meds™ - User Guide PCA							
Drug Library M	Drug Library Management   Reports   CCA Setup   Master Infuser Setup   Protocols							
-Taraot Liet								
	Target List: 5 West							
5 West	<u>Add</u>		iew	<u>R</u> emove	e from CCA			
Protocol Number	I Protocol Name I Generic Name I External ID I I Delivery Mode							
1	Morphine PCA	Morphine	EXT_ID_072	30 mg / 30 mL	PCA + Continuous			
					, T			
					Į			
~~ · ~~~	and when the	where a second s		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

The selected pro	tocol displays.
------------------	-----------------

View Protocol						X
CCA: 5 West						
Lockout Interval: 5 - 120 minutes						
_						
Protocol Number: 1						
Protocol Name: Morphine PCA						
Generic Name: Morphine		Medication Entry Lin	its			
External ID: EXT_ID_0	72	Rule Set Group	is LHL	LSL	USL	UHL
		Loading Dose				
Displayed Name: Morphine	PCA	PCA Dose				
Container Concentration: 30 mg / 3	0 mL	Continuous Rat	e			
Delivery Mode: PCA + Co	ontinuous	Dose Limit				
Delivery Parameters						
Dosir	ng Unit:	minutes:				
PCA Dose: 1 mg	Lockout Interva	al: 15				
Continuous Rate: 1 mg/	hr					
Dose Limit: 20 mg	Time Interva	al: 4-hours				
Bar Codes						
Bar Code 1:	Bar Code 2:	Bar Code 3:	Bar Code 4	+:	Bar Code	:5:
356						
		<u>C</u> lose <u>H</u> elp				

3. Click **Close** to exit the screen.

#### To remove a protocol from a CCA:

- 1. From a Target List CCA, select the protocol to be removed.
- 2. Click Remove from CCA.

🛃 Hospira M	edNet™ Meds™ - User Guid	e PCA			
Drug Library M	lanagement   Reports   CCA Se	etup 🛛 Master Infuser	Setup Protocols		4
					-
r Target List	5 West				
5 West	<u>A</u> dd	Edit	liew		from CCA
Protocol Number	Protocol Name	Generic Name	External ID	Container Concentration	Delivery Mode
1	Morphine PCA	Morphine	EXT_ID_072	30 mg / 30 mL	PCA + Continuous
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

3. Click Remove on the Confirm Remove Protocols from CCA pop-up.

র্বী Confirm Remove Protocols from CCA	×
Remove from: 5 West	
Protocols	1
1 Morphine PCA Morphine (EXT_ID_072) 30 mg / 30 mL PCA + Continuous	
<u>Remove</u> <u>Cancel</u> <u>H</u> elp	

#### To add a protocol to the Master Protocol List:

1. Display the Protocols view by opening a Worksheet for editing and clicking the **Protocols** tab (for instructions on opening a Worksheet, see **Chapter 5: The Library Directory on page 27**).

🗹 Hospira Me	dNet™ Meds™ - User Guid	e PCA	
Drug Library Ma	nagement   Reports   CCA Se	etup   Master Infuser S	ietup Protocols
Target List: 5	West		
5 West	▼ <u>A</u> dd	<u>E</u> dit <u>V</u> i	ew
Protocol Number	Protocol Name	Generic Name	External ID
	lorphine PCA	Morphine	EXT_ID_072
Source List:	Master Protocol List —		
Master Protoc	iol List	Edi <u>t</u> Vi	e <u>w</u>
Protocol Number	Protocol Name	Generic Name	External ID

- 2. Under Source List, select the Master Protocol List from the drop-down list.
- 3. Click Add.

-

Generic Name	External ID	Container Concentration	Time Interval
Ampicillin	EXT_ID_011	250 mg / 5 mL	4-hours
Iindamycin	EXT_ID_031	100 mg / 5 mL	4-hours
OPamine	EXT_ID_037	400 mcg / 4 mL	4-hours
Ampicillin 1gm	10011	250 mg / 5 mL	4-hours
Morphine	EXT_ID_072	30 mg / 30 mL	4-hours
Fentanyl	EXT_ID_046	300 mcg / 30 mL	4-hours
Hydromorphone	EXT_ID_054	4 mg / 1 mL	4-hours
Fentanyl	EXT_ID_046	250 mcg / 5 mL	4-hours
			<u>,</u>
4			,

4. Select a medication entry.

- 5. Click OK.
- 6. Enter a **Protocol Number** or accept the default number.

4	Add Protocol
	Master Protocol List
6	Protocol Number: 2
	Protocol Name:
7	Generic Name: Fentanyl
	External ID: EXT_ID_046
	Displayed Name:
	Container Concentration: 250 mcg / 5 mL
8	Delivery Mode: Continuous
	Delivery Parameters
	PCA Dose: Lockout Interval:
9	Continuous Rate: mcg/hr
,	Dose Limit: mcg Time Interval: 4-hours
	Bar Code 5: Bar Code 4: Bar Code 5:
	1142
	Please specify Continuous Rate.
	Flease specify continuous Rate.
	Save Cancel Help

- **Note:** The protocol number must be unique and cannot be re-used within a drug library. The protocol name, however, can be a duplicate within a drug library.
  - 7. Enter a **Protocol Name**.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Note: The Protocol Name is not displayed on the LifeCare PCA infuser.

- 8. Select a **Delivery Mode** from the following choices:
  - a. PCA
  - b. PCA + Continuous
  - c. Continuous
- 9. Based on the delivery mode you have chosen, enter variables for the enabled fields. All enabled fields are required.
- 10. Click Save.
- **Note:** All protocol dosing must be equal to or within the soft limits of the rule set for that medication and concentration (as shown in the **Medication Entry Limits** table). Values must be in the range allowed by the infuser, or an error message appears.

#### To edit a protocol in the Master Protocol List:

- 1. Select a protocol from the Source List: Master Protocol List.
- 2. Click Edit.

M nospira Me	dNet™ Meds™ - User Guid	e PCA	
Drug Library Ma	nagement   Reports   CCA S	etup 🛛 Master Infuser S	Setup Protocols
<b>_</b> Target List: !	5 West		
5 West	Add	Edit V	jew
Protocol Number	Protocol Name	Generic Name	External ID
	1orphine PCA	Morphine	EXT_ID_072
	Master Protocol List		
Source List:		Edit V	ie <u>w</u>
			iew

3. Enter the desired changes.

Protocol
ster Protocol List
stocol Number:
Protocol Name: Morphine PCA
Generic Name: Morphine
External ID: EXT_ID_072
Displayed Name:
Container Concentration: 30 mg / 30 mL
Delivery Mode: PCA + Continuous
Pelivery Parameters
Dosing Unit: minutes:
PCA Dose: 1 Indexed Interval: 15
Continuous Rate: 1 mg/hr
Dose Limit: 20 mg Time Interval: 4-hours
Sar Codes
Bar Code 1: Bar Code 2: Bar Code 3: Bar Code 4: Bar Code 5:
356
Save Cancel Help

4. Click Save.

#### To view a protocol in the Master Protocol List:

- 1. Select the protocol to view.
- 2. Click View.

🛃 Hospira Me	edNet™ Meds™ - User Guid	e PCA	(
Drug Library Ma	anagement   Reports   CCA Se	etup 🛛 Master Infuser S	ietup Protocols 🏹
			2
r Target List:	5 Most		
		-11	}
5 West	<u>A</u> dd	<u>E</u> dit <u>V</u> i	ew k
Protocol	Protocol Name	Generic Name	External ID
Number			2
1	Morphine PCA	Morphine	EXT_ID_072 💦
			,
Source List:	Master Protocol List —		
Source List:		Edit Vi	
		Edit Vi Generic Name	

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

The selected protocol displays.

View Protocol				×
Master Protocol List				
Protocol Number: 1				
Protocol Name: Morphin	e PCA			
Generic Name:	Morphine			
External ID:	EXT_ID_072			
Displayed Name:				
Container Concentration:	30 mg / 30 mL			
Delivery Mode:	PCA + Continuous	<b>V</b>		
Delivery Parameters				
PCA Dose: 1	Dosing Unit:	minutes: interval: 15		
Continuous Rate: 1	mg/hr			
Dose Limit: 20	mg Time I	interval: 4-hours		
Bar Codes				
Bar Code 1: 356	Bar Code 2:	Bar Code 3:	Bar Code 4:	Bar Code 5:
1000			I	
		<u>Close</u> <u>H</u> elp		

3. Click **Close** to exit the screen.

#### To delete a protocol from the Master Protocol List:

- 1. Select the protocol to delete.
- 2. Click Delete from Master Protocol List.

Drug Library M	anagement   Reports   CCA S	etup   Master Infuser :	Setup Protocols		
r Target List:	5 West				
5 West	<u>–</u> <u>A</u> dd	<u>E</u> dit <u>V</u>	jew	<u>R</u> emove	e from CCA
Protocol Number	Protocol Name	Generic Name	External ID	Container Concentration	Delivery Mod
1	Morphine PCA	Morphine	EXT_ID_072	30 mg / 30 mL	PCA + Continuo
Master Prot	: Master Protocol List	Edi <u>t</u> V	ie <u>w</u>	<u> </u>	aster Protocol List
		Edi <u>t</u> V Generic Name	ie <u>w</u>	Container Concentration	aster Protocol List

3. Click **Remove** on the **Confirm Remove Protocols from CCA** pop-up.

D	elete Protocol	×
	Deleting this protocol will remove it from the master protocol list as well as from the following CCAs: 5 West	-

- 4. Click OK.
- **Note:** If the selected protocol is not associated with a CCA there will be no confirmation message. The protocol is removed from the Master Protocol list.

#### To copy a protocol to a CCA:

- **Note:** Once a protocol has been entered and saved, the protocol is available for duplication to other CCAs using the **Copy from Master Protocol List** button.
  - 1. Select a CCA from the **Target List** drop-down list.
  - 2. Select a protocol to be copied from the **Source List** to the selected CCA.
- **Note:** A protocol can only be copied to a CCA if a medication entry with the same Generic Name, External ID, Container Concentration, and Time Interval exists in the CCA you are copying to.
  - 3. Click Copy to Target CCA.

	🗹 Hospira MedNet™ Meds™ - User Guid	e PCA			_ 🗆 🗙
	Drug Library Management   Reports   CCA Se	etup   Master Infuser Setup   Protocols			
					<u>⊆</u> lose <u>H</u> elp
	Target List: 5 West				
1	5 West Add	Edit View	Remove from CCA		
	Protocol Protocol Name	Generic Name External ID	Container Delivery Mode	PCA Lockout Continuous Dose Dose Interval (min) Rate Limit	Time Interval
	1 Morphine PCA	Morphine EXT_ID_072	30 mg / 30 mL PCA + Continuous	1 mg 15 1 mg/hr 20 mg	4-hours
	r Source List: Master Protocol List				
	Master Protocol List Add	Edi <u>t</u> Vie <u>w</u>	Delete from Master Protocol List	Copy to Target	
2	Protocol Number Protocol Name	Generic Name External ID	Container Delivery Mode	PCA Lockout Continuous Dose Dose Interval (min) Rate Limit	Time Interval
2	1 Morphine PCA	Morphine EXT_ID_072	30 mg / 30 mL PCA + Continuous	1 mg 15 1 mg/hr 20 mg	4-hours
ļ			~~_~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

4. Click Copy in the Confirm Copy Protocol to CCA pop-up.

🛃 Confirm	Copy Protocol to CCA	×
Copy from:	Master Protocol List	-
Copy to:	5 West	
[Protocol -		1
1 Morphi	ne PCA Morphine (EXT_ID_072) 30 mg / 30 mL PCA + Continuous	
	Copy Cancel Help	

# **Chapter 12: SapphirePlus Medication Entries**

#### Overview

This chapter explains how to create and define clinical decision rules for medications in the SapphirePlus drug library.

The Hospira MedNet Meds software enables you to customize dose-rate limits for medications used in drug libraries. You can customize clinical decision rules for up to 40 different clinical care areas (CCAs) in the hospital and up to 400 medication entries in each CCA. The Master Drug Formulary can only have a maximum of 11,150 medication entries *overall* to be assigned to CCAs.

# **Defining Rule Sets**

To create a rule set for a medication, specify the name of the medication, the concentration, dose rate limits, and bolus limits consistent with your IV infusion therapy best practices. Each medication entry must have a generic name and a displayed name. Beyond that, you can create medication entries specific to your institution.

# **Important:** The medication entry parameters are linked together and the programming sequence displayed on the infuser is dependent on how the rule set is defined. Please read this section carefully.

The possible combinations for medication concentration include:

- Complete concentration defined (for example, 400 mg/250 mL)
- Partial concentration defined (for example, 400 mg/\_\_mL, \_\_mg/\_\_mL, \_\_mg/250 mL)
- No Concentration
- Diluent Only

Once the medication unit has been selected, the units displayed in the drop-down list for dose rate limits, bolus amount limits, and bolus dose rate limits will include only the selections that are appropriate for that medication unit. For example, when the medication unit is grams, mg, or mcg, all the dosing units will be in the gram "family."

Another characteristic of IV medication administration relates to administering a bolus dose. The Hospira MedNet Meds software accommodates defining limits for bolus administration by allowing three types of bolus rules to be configured independently:

- Bolus amount limits
- Bolus time limits
- Bolus dose rate limits

Bolus limits must be defined in the same unit "family" as the medication unit.

Within a CCA, no two medication entries may have exactly the same External ID and Concentration. Also, no two medication entries may have exactly the same Displayed Name and Concentration. These represent the two *unique* combinations.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

In the Master Drug Formulary, two medication entries may have the same displayed name, medication amount, medication unit, diluent amount, and dosing units, as long as one or more attributes of the dose rate limits or bolus dose rate limits are different.

#### **Complete Concentration**

To create a medication entry with a specific concentration defined, enter the medication amount, medication unit, and diluent amount.

The clinician will not be able to change the concentration on the infuser for this medication.

Source List: Edit Rule Set				×
-Medication and Concentration	Generic Name (External ID)	) (Strength / Volume	e) {Dosage Form}:	
DOPAMINE 800 MG-D5W (218	6) ( / 250 ML) {IV BAG}			Select
Displayed Name:	Therapeutic Class:		s ID:	
DOPAMINE 800 MG	BETA-ADRENERGIC AGONISTS	12:12.08		
No Concentration Diluent Only Medication Amount: 400		ient Amount: mL		
Dose Rate Limits Dosing Unit:	LHL: LSL:	USL:	UHL:	Therapies
mcg/kg/min 👻		1	20	✓ Piggyback (Secondary)
Enable Bolus				V Multistep
m	······	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

**Note:** Please consult the Q Core SapphirePlus User Manual for the infuser's detailed information and functionality.

#### **Partial Concentration**

To create a medication entry with a partial concentration defined, you must select the desired medication unit. The other concentration fields are optional. Leaving the medication amount or the diluent amount blank allows the clinician to enter a non-standard concentration at the time of programming.

Source List: Edit Rule Set			×			
Medication and Concentration —	Generic Name (External ID)	(Strength / Volume) {Dosage Form}				
DOPAMINE 800 MG-D5W (2186) ( / 250 ML) {IV BAG}						
Displayed Name:	Therapeutic Class:	Class ID:				
DOPAMINE 800 MG	BETA-ADRENERGIC AGONISTS	12:12.08				
Summary: DOPAMINE 800 I	1G mg / 250 mL Dosed in mcg	)/kg/min				
No Concentration						
Diluent Only	Madian Franklinika – Dikura					
Medication Amount:	Medication Unit: Diluer	nt Amount: mL				
	230					
Dose Rate Limits						
Dosing Unit:	LHL: LSL:	USL: UHL:	Basic (Continuous)			
mca/ka/min •						
			Piggyback (Secondary)			
Enable Bolus			Multistep			
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

**Note:** Please consult the Q Core SapphirePlus User Manual for the infuser's detailed information and functionality.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### No concentration

To create a medication entry with no concentration defined, check "No Concentration." The corresponding concentration fields will be grayed out. This type of rule set is useful when you simply want the name of the medication to display on the infuser and concentration or diluent volume is not appropriate for that medication.

Source List: Edit Rule Set				×
Medication and Concentration —	Generic Name (External ID	) (Strength / Volume) {Dos	age Form}:	
DEXTROSE (POLYOLEFIN) 5%	6 (2396) ( / 250 ML) {IV BAG}			Select
Displayed Name:	Therapeutic Class:	Class ID:		
DEXTROSE (POLYO	CALORIC AGENTS	40:20.00		
Summary: DEXTROSE (POL	YO Dosed in mL/hr			
No Concentration				
Dose Rate Limits Dosing Unit:	LHL: LSL:	USL:	UHL:	Therapies
mL/hr			UNL:	Basic (Continuous)
				Piggyback (Secondary)
Enable Bolus				Multistep
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	

**Note:** Please consult the Q Core SapphirePlus User Manual for the infuser's detailed information and functionality.

#### **Diluent Only**

To create a Diluent Only medication entry, check "Diluent Only." You may enter a specific diluent volume or leave the field blank. The clinician will be prompted to enter the diluent volume when programming the infuser if you leave the field blank. This type of rule set is useful for solutions like Dextrose 5% in Water, TPN, and others where the medication amount is not pertinent.

Source List: Add Rule Set				×
Medication and Concentration	Generic Name (External ID)	(Strength / Volume) {Dosa	ge Form}:	
ALBUMIN 5% (421) (12.5 GM)	/ 250 ML) {IV BTL}			Select
Displayed Name:	Therapeutic Class:	Class ID:		
ALBUMIN 5%	BLOOD DERIVATIVES	16:00.00		
Summary: ALBUMIN 5% 10	000 mL Dosed in mL/hr			
No Concentration				
Diluent Only				
	Dilue	nt Amount: mL		
	1000			
Dose Rate Limits Dosing Unit:	LHL: LSL:	USL:	UHL:	Therapies
mL/hr 👻				
h				Piggyback (Secondary)
Enable Bolus				Multistep
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

**Note:** Please consult the Q Core SapphirePlus User Manual for the infuser's detailed information and functionality.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Setting Limits

Hospira MedNet Meds allows you to define dose rate limits, and bolus limits for medications infused through the SapphirePlus infuser.

You can define upper and lower soft and hard limits as part of the rule set for each medication entry created in the library. As you configure the limits, the software enforces the following rules:

Lower Hard Limit (LHL) <=Lower Soft Limit (LSL) <= Upper Soft Limit (USL) <= Upper Hard Limit (UHL)

**Soft Limits** are dose rate limits that can be overridden when programming the infuser. When a value entered on the infuser is lower than the lower soft limit or higher than the upper soft limit, the infuser displays a soft limit override confirmation message. The infuser records soft limit overrides.

For example, if the upper soft limit is set to 10 mcg/kg/min and the clinician enters 15 mcg/kg/ min, the infuser will display a soft limit override alert. This alert notifies the clinician that the entry is outside the range of the soft limits set for that medication in the drug library. The clinician can choose to continue programming using the override or cancel the override and edit the value.

Hard Limits are dose rate limits that cannot be overridden.

Bolus Limits can be defined in three ways:

**Bolus Amount Limits** allow you to define the total amount of medication that can be administered in a bolus.

**Bolus Time Limits** allow you to define the time period over which a bolus can be administered. A minimum administration time for the bolus is defined as a lower limit, while a maximum administration time is defined as an upper limit.

**Bolus Dose Rate Limits** allow you to define the rate at which a bolus can be administered.

**Note:** If defining Bolus Rules by weight: The Bolus Dose Rate limits can be defined based on weight only if the Bolus Amount units are also based on weight.

# SapphirePlus Therapy Modes

Programming workflow on the SapphirePlus infuser requires the user to select a CCA and enter patient ID, if that feature is enabled. The user can then proceed to select the medication, enter the infusion settings (rate, volume, time, patient weight, as appropriate), confirm and start the infusion.

The SapphirePlus drug library contains settings that control which therapy modes are available on the infuser for each medication entry. In the medication rule set view, checkboxes are used to enable each of the following therapy modes:

- Basic (Continuous): Allows the user to program the medication as a primary infusion.
- **Bolus**: Allows the user to program a bolus delivery from either a primary or secondary infusion.
- **Piggyback (Secondary)**: Allows the user to program an infusion from a secondary container once a primary infusion has been programmed.

**Note:** The maximum rate for a piggyback infusion from a secondary container is 500 mL/hr.

• Multistep: Allows the user to program an infusion with up to 25 sequential steps.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

## **Medication Entry Rules and Conventions**

The Hospira MedNet Meds software uses the following conventions for SapphirePlus medication entries:

- Entry of upper hard and soft limits, and lower hard and soft limits, is optional, not required.
- Medication entries can be created by adding them to either the Master Drug Formulary or directly to a CCA. Medication entries added to a CCA Target List are automatically copied into the Master Drug Formulary List.
- "Validity" messages appear in red at the bottom of the Rule Set window. When you enter a value that is not allowed, the message specifies the defined range for the field, or the reason the value is not permitted.
- Displayed Name cannot contain comma (,) or double-quote (") characters. All alphabetic and numeric characters are acceptable as are the following:
   % / # \* & () + SPACE
- Once you select a medication unit, the dosing unit field will display only the enabled unit type.
- The software prohibits invalid numeric entries and signals them with an audible "beep."
- You may use the vertical and horizontal scroll bars to navigate to an entry.
- If you do not select or populate a required field, an error message appears.
- When you highlight an entry on the Drug Library Management list view, buttons or features that are not allowed appear as "grayed" or disabled.
- When you add a new medication in the Generic Name field of the Rule Set window, you may search for a medication by typing the first few characters of its generic name. The drop-down list will navigate to show any matching medications.

### The SapphirePlus Medication Rule Set

When you configure a medication for use in the SapphirePlus drug library, the Rule Set window enables you to define dosage limits as seen in the screen below.

Source List: Edit Rule Set				×
Medication and Concentration	Generic Name (E)	(ternal ID) (Strength / V	olume) {Dosage Form}:	
AMIODARONE (1718) (150 MG /				Select
Displayed Name:	Therapeutic Cla		Class ID:	
AMIODARONE	ANTIARRHYTHMIC AG	ENTS\1 24:04.04		
Summary: AMIODARONE 900	0 mg / 500 mL Dosed i	in mg/min		
Diluent Only Medication Amount: 900	Medication Unit:	Diluent Amount: ml 500		
Dose Rate Limits				Therapies
Dosing Unit:	LHL: LS	L: USL:	UHL:	Basic (Continuous)
mg/min 🗸			1	Piggyback (Secondary)
☑ Enable Bolus				Multistep
Bolus Amount Limits	LHL:	LSL:	USL:	UHL:
mg 🗸	LIL:	LSL;	USL:	150
Maximum Bolus Amount Unit:	Maximum Bolus Amount:			
Bolus Time Limits (hh:mm)				
	LHL:	LSL:	USL:	UHL: 00:10
Bolus Dose Rate Limits	LHL:	LSL:	USL:	UHL:
mg/min 👻				
	Save	& Close	Help	

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### **Rule Set Fields**

The following table lists the fields, a brief description, and allowed value range for the infuser.

Field	Description	Allowable Range		
Generic Name	The medication name from the Medication List. It is selected from the drop-down list and displays the External ID (the hospital's identifier for a medication). Strength/Volume and Dosage Form display only if part of your Medication List.	Not editable in Hospira MedNet Meds.		
Displayed Name	The name that will be displayed on the infuser.	<ul> <li>Cannot be blank</li> <li>Each medication entry must have a generic name and a displayed name; you cannot save a medication entry without a name in these fields. The number of characters in the displayed name is determined by how it is displayed on the infuser's screen.</li> <li>The maximum number of characters allowed in a displayed name is 15.</li> <li>Displayed Name cannot contain comma (,) lesser than (&lt;), greater than (&gt;), or double-quote (") characters. All alphabetic and numeric characters are acceptable as are . % / # * - &amp; () + SPACE</li> </ul>		
Therapeutic Class	The therapeutic class assigned to the medication.	Not editable in Hospira MedNet Meds.		
Class ID	The ID of the therapeutic class assigned to the medication.	Not editable in Hospira MedNet Meds.		
No Concentration	Allows you to create an entry for medications when concentration is not needed.	Checked or Unchecked		
Diluent Only	Allows you to create a medication entry for plain IV solutions or those IV fluids where concentration is not important in defining the rule set, i.e., when dosing units are mL/kg/hr or mL/hr.	Checked or Unchecked		
Medication Amount	Allows you to enter the medication amount in the units selected.	<ul> <li>mcg, mg, grams, mmol, Million Units, milliUnits, units, mEq</li> <li>0.01-99.99 in increments of 0.01</li> <li>100-9999999 in increments of 1</li> </ul>		
Medication Unit	Allows you to select the unit of measure for the medication amount.	mcg, mg, grams, mmol, Million Units, milliUnits, units, mEq		
Diluent Amount	Allows you to set the total volume of the medication container or syringe.	<ul> <li>For mL:</li> <li>0.1-99.9 mL in increments of 0.1</li> <li>100-9999 mL in increments of 1</li> </ul>		

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Field	Description	Allowable Range
Dosing Unit	The dosing unit for the medication.	For mmol: • mmol/hr • mmol/kg/hr For mEq: • mEq/hr • mEq/kg/hr For Million Units: • Million Units/hr For units family: • milliUnits/min, milliUnits/hr, milliUnits/kg/ min, milliUnits/kg/hr • units/min, units/hr, units/kg/min, units/kg/hr For grams family: • mcg/min, mcg/hr, mcg/kg/min, mcg/kg/hr, • mg/min, mg/hr, mg/kg/min, mg/kg/hr, • grams/hr • nanog/kg/min For mL: • mL/hr, mL/kg/hr, mL/kg/min, mL/min Only one choice from all of the available units can be selected and it must be in the same family as the medication unit.
Dose Rate Limits	Lower hard limit, lower soft limit, upper soft limit, upper hard limit. Allows you to set the upper and/or lower limits for dose rate, VTBI, bolus amount, bolus time, and bolus dose rate.	<ul> <li>For mL family (Basic, Multistep and Bolus):</li> <li>0.1-99.9 in increments of 0.1</li> <li>100-999 in increments of 1</li> <li>For mL (Piggyback only):</li> <li>0.1 - 99.9 in increments of 0.1</li> <li>100 - 500 in increments of 1</li> <li>For the following families: grams, units, Million Units, mEq-based, and mmol:</li> <li>0.001-99.999 in increments of 0.001</li> <li>100-99999999 in increments of 1</li> </ul>
Therapies	Therapies allowed for the drug entry. Choosing one of these determines where the drug is listed on the infuser.	<ul><li>Basic (Continuous)</li><li>Piggyback (Secondary)</li><li>Multistep</li></ul>
Enable Bolus	Indicates this medication will be available for a bolus therapy on the infuser and may be administered as a bolus that is independent of the limits governing a basic infusion.	Checked or Unchecked

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

Field	Description	Allowable Range
Bolus Amount Limits <sup>1</sup>	Allows you to define the total amount of medication that can be administered in a bolus.	<ul> <li>For mL:</li> <li>0.1-99.9 in increments of 0.1</li> <li>100-9999 in increments of 1</li> <li>For nanog, mcg, mg, gram, milliUnits- and units-based, Million Units, mEq, mmol:</li> <li>0.001-99.999 in increments of 0.001</li> <li>100-999999999 in increments of 0.1</li> </ul>
Maximum Bolus Amount and Units <sup>1</sup>	Enabled when the selected Bolus Amount Limits Unit is weight-based. If the Bolus Amount Limits Unit is not mL/kg, the allowable values are the same as those in the selected Bolus Amount Limits Unit family (mmol, mEq, Units, or grams), and exclude weight-based. If the Bolus Amount Limits Unit is mL/kg, the Maximum Bolus Amount Units are mL.	See Bolus Amount Limits.
Bolus Time <sup>1</sup>	Allows you to define the time period over which a bolus can be administered, in hh:mm format.	Entered Time: <ul> <li>00:01-99:59 in increments of 00:01</li> </ul>
Bolus Dose Rate <sup>1</sup> Limits	Allows you to define the rate at which a bolus can be administered.	<ul> <li>For mL family (Basic, Multistep and Bolus):</li> <li>0.1-99.9 in increments of 0.1</li> <li>100-999 in increments of 1</li> <li>For mL (Piggyback only):</li> <li>0.1 - 99.9 in increments of 0.1</li> <li>100 - 500 in increments of 1</li> <li>For the following families: grams, units, Million</li> <li>Units, mEQ-based, and mmol:</li> <li>0.001-99.999 in increments of 0.001</li> <li>100-99999999 in increments of 1</li> </ul>
<sup>1</sup> Visible only when "Ena	able Bolus" is checked	1

# **Step-by-step Procedures**

The following section provides step-by-step procedures that enable you to create and manage medication entries. In this section you will learn how to do the following:

- Add a medication entry in a CCA
- Edit a medication entry in a CCA
- Create a medication entry in the Master Drug Formulary
- Edit a medication entry in the Master Drug Formulary
- View a medication entry in the Master Drug Formulary
- Delete a medication entry from the Master Drug Formulary
- Copy a medication entry from the Master Drug Formulary to a Target CCA

#### To add a medication entry in a CCA:

- 1. Select the desired CCA from the drop-down Target List.
- 2. Click Add, from the Target List.

	M Hospira MedNet™	Meds™ - User	Guide		5		
	Drug Library Manageme	nt Reports C	CCA Setup Master Ir	nfuser Setup	}		
2	Einalize		-		,		
1	Main Floor       Main Floor       Add       Edit       View       Remove						
	Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit		
	ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr 式		
	AMIODARONE	1719	AMIODARONE	50 mg / 3 mL	mL/hr 💃		
	DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg /mL	mL/hr		
ļ	DOPAMINE 800 M	2186	DOPAMINE BOO MG	400 mg / 250 mL	mcg/kg/min		

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

3. Select the Generic Name for the medication entry from the medication list.

Show generic names beginnin	ng with 👻					
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	
ALEMTUZUMAB	CAMPATH	3534	30 MG	1 ML	**	
ALPROSTADIL	PROSTIN VR PED (EQ)	3029	500 MCG	1 ML	**	
ALPROSTADIL	PROSTIN VR PED (EQ)	194	500 MCG	1 ML	AMP	
ALTEPLASE	CATHFLO	2760	2 MG	1 VIAL	VIAL	
ALTEPLASE	ACTIVASE	2769	1 MG	1 ML	**	
ALTEPLASE	ACTIVASE	2768	50 MG	1 VIAL	VIAL	
ALTEPLASE	CATHFLO	3793	1 MG	1 ML	**	
ALTEPLASE	ACTIVASE	1259	100 MG	1 VIAL	VIAL	
AMIKACIN	AMIKACIN	1439	250 MG	1 ML	**	
AMIKACIN	AMIKACIN	211	500 MG	2 ML	VIAL	
AMINO ACID 2%-DEXTRO	AMINO ACID 2%-DEXTRO	3422		250 ML	IV BAG	
AMINO ACIDS 10%	TROPHAMINE	976		500 ML	BTL	
AMINO ACIDS 15%	AMINO ACIDS 15%	626		2000 ML	IV BAG	
AMINO ACIDS 8%	HEPATAMINE 8%	977		500 ML	BTL	
AMINOCAPROIC ACID	AMICAR (EQ)	1669	0.25 GM	1 ML	**	
AMINOCAPROIC ACID	AMICAR (EQ)	1062	5 GM	20 ML	VIAL	
AMINOPHYLLINE	AMINOPHYLLINE	1051	250 MG	10 ML	VIAL	
AMINOPHYLLINE	AMINOPHYLLINE	1052	500 MG	20 ML	VIAL	
AMINOPHYLLINE-NSS	AMINOPHYLLINE-NSS	3927	2.5 MG	1 ML	INFSYR	
AMIODARONE	CORDARONE (EQ)	1718	150 MG	3 ML	VIAL	
AMIODARONE	CORDARONE (EQ)	1719	50 MG	1 ML	**	
AMIODARONE KIT (STOCK)	CORDARONE (EQ) KIT (ST	2499	450 MG	250 ML	IV BAG	
AMPHOTERICIN B	AMPHOTERICIN B	1677	5 MG	1 ML	**	-
elected Medication		<b>me (</b> External ID)(	(Strength / V	olume) {Do	osage Form}:	
Displayed Name: AMIODARC						

- 4. Click Select Medication.
- **Note:** Selecting a **Generic Name** from the medication list automatically populates the **Displayed Name**, **External ID**, **Therapeutic Class**, and the **Class ID** fields.

**Note:** The **Displayed Name** can be edited once populated. The maximum number of characters in the **Displayed Name** is 15. If the Displayed Name exceeds the character limit, the name will be automatically truncated. You can either accept or edit the Displayed Name before continuing.

Т	arget List: Add Rule Set			×
	Medication and Concentration	Generic Name (External ID)	(Strength / Volume) {Dosage Form}:	
	AMIODARONE (1719) (50 MG / 1	1 ML) {**}		Select
	Displayed Name:	Therapeutic Class:	Class ID:	
	AMIODARONE	ANTIARRHYTHMIC AGENTS\1	24:04.04	
	Summary: AMIODARONE 90 No Concentration  Diluent Only  Medication Amount: 900	Medication Unit: Dilue	n nt Amount: mL	
	Dose Rate Limits Dosing Unit: mg/min	LHL: LSL:	USL: UHL:	Therapies
	Enable Bolus	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Piggyback (Secondary)

- 5. Configure the desired concentration values by either:
  - a. Checking No Concentration, or
  - b. Checking **Diluent Only**, or
  - c. Entering/selecting values for Medication Amount, Medication Unit, and Diluent Amount.
- 6. Set the **Dose Rate Limits** by selecting the Dosing Unit from the drop-down list; then enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit.
- Note: Dose Rate Limits are optional but Dosing Unit must be selected.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 7. Check **Enable Bolus** if you want to set bolus dose limits for this medication (Optional). If you do not choose to set Enable Bolus, proceed to the next step.
  - a. Select the **Bolus Amount Limits Unit** from the drop-down list and enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit. This is a required field when you select Enable Bolus.
  - b. Enter the desired values for **Bolus Time Limits**: Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit.
  - c. Select the **Bolus Dose Rate Limits** from the Dosing Unit drop-down list. Enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit (optional).

-Medication and Concentration —	Generic Name (Ext	ernal ID) (Strength / \	/olume) {Dosage Form}	:	
AMIODARONE (1719) (50 MG /	1 ML) {**}				<u>S</u> elect
Displayed Name:	Therapeutic Clas		Class ID:		
AMIODARONE	ANTIARRHYTHMIC AGEN	VTS\1 24:04.04			
Summary: AMIODARONE 94					
Medication Amount: 900	Medication Unit:	Diluent Amount: n 500			
Dose Rate Limits Dosing Unit:	LHL: LSL:	: USL:	UHL:	Therapies	
mg/min 👻			1	Basic (Con	-
				Piggyback	(Secondary)
Enable Bolus				V Multistep	
Bolus Amount Limits	LHL:	LSL:	USL:	UHL:	7
mg -		LSL:	USL:	150	1
Maximum Bolus Amount Unit:	Maximum Bolus Amount:		1		
Bolus Time Limits (hh:mm)					7
		LSL:	USL:	UHL:	
Bolus Dose Rate Limits Dosing Unit:	LHL:	LSL:	USL:	UHL:	]

- 8. For **Therapies**, check or uncheck Basic (Continuous), Piggyback (Secondary), and Multistep, as needed. At lease one of the therapies must be checked to enable the medication to be selected from the Program screen on the infuser.
- 9. Click Save & Add Another or Save & Close to add the medication entry to the CCA.

#### To edit a medication entry in a CCA:

- 1. Select the CCA containing the medication entry you want to edit from the **Target List** drop-down.
- 2. From the Target List, select the medication entry you want to edit.

Drug Library Manageme	ent Reports	CCA Setup   Master I	nfuser Setup	
<u>F</u> inalize				
r Target List: Main F	loor			
-				
Main Floor	▼	Add Edit	<u>V</u> iew <u>F</u>	emove <u>R</u> emove
Dose Rate Limits	Bolus Limits			
Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit
ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr
DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg /mL	mL/hr
DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min
HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr
OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min
VASOPRESSIN	2530	VASOPRESSIN	20 units / 1 mL	units/min

3. Click Edit.

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

4. Make changes as desired.

arget List: Edit Rule Set			×
-Medication and Concentration	Generic Name (External	l ID) (Strength / Volume) {Dosage Form	}:
HEPARIN 25 000 UNITS-D	5W (1642) ( / 500 ML) {IV BAG}		Select
Displayed Name:	Therapeutic Class:	Class ID:	
HEPARIN 25 000	ANTICOAGULANTS	20:12.04	
Summary: HEPARIN 25 0	00 7500 units / mL Dosed in	n units/kg/hr	
No Concentration			
Diluent Only			
Medication Amount	: Medication Unit: [	Diluent Amount: mL	
Picalcadori Anoune	, nearcadon onica i	Dident Amount, me	
7500	units 👻		
7500	units		
	units		
	LHL: LSL:	USL: UHL:	
Dose Rate Limits		USL: UHL: 30 45	Basic (Continuous)
Dose Rate Limits Dosing Unit:	LHL: LSL:		

- 5. Click Save & Close to save your changes.
- **Note:** Medication entries in the Master Drug Formulary will be updated with the same change.

If you edit a medication entry in one CCA and then edit another CCA with different rule sets, there will be two medication entries in the Master Drug Formulary that will show the same medication but each will have its own rule set.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To view a medication entry in a CCA:

1. Select the CCA containing the medication entry you want to view from the **Target** List drop-down list.

M Hospira MedNet™	Meds™ - User	r Guide					
Drug Library Manageme	ent Reports (	CCA Setup Master I	nfuser Setup				
Einalize							
Target List: Main F	Target List: Main Floor						
Main Floor	<b>•</b> ]	Add Edit	<u>V</u> iew F	Remove			
				{			
Dose Rate Limits E	Bolus Limits			)			
Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit			
ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr			
DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg / mL	mL/hr			
DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min			
HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr			
OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min			
VASOPRESSIN	2530	VASOPRESSIN	20 units / 1 mL	units/min			
han _ m	· · · · · · · · · · · · · · · · · · ·		~ ~~~				

- 2. Select a medication.
- 3. Click View.
- 4. Click Close to exit the screen.

arget List: View Rule Set						<b>X</b>
-Medication and Concentration		ic Name (Externa	al ID) (Strength / Volum	e) {Dosage Form}	:	
HEPARIN 25 000 UNITS-D	<b>5W (</b> 1642 <b>) (</b> / 50	0 ML) {IV BAG}				<u>S</u> elect
Displayed Name:	Th	erapeutic Class:	Clas	ss ID:		
HEPARIN 25 000	ANTICOA	GULANTS	20:12.04			
Summary: HEPARIN 25 (	00 7500 units	/ mL Dosed i	in units/kg/hr			
No Concentration						
				1		
Diluent Only						
Medication Amoun	t: Medica	tion Unit:	Diluent Amount: mL			
7500	units					
Dose Rate Limits		101			- Therapies -	
Dosing Unit:	LHL:	LSL:	USL:	UHL:	Basic (	(Continuous)
units/kg/hr 👻		5	30	45	Piggyt	oack (Secondary)
					V Multist	ten
Enable Bolus					V Plands	uch.

# To remove a medication entry from a CCA:

1. Select the CCA containing the medication entry you want to remove from the **Target** List drop-down.

D	rug Library Manageme	ent Reports	CCA Setup Master I	nfuser Setun	
		Reports	CON SCUP   Master 1	muser betup	
ſ	Finalize				
Г	Target List: Main F	loor			
Т	Main Floor		Add Edit	View	Remove
Т	Main Floor				<u>Temore</u>
Т	Dose Rate Limits				
L	Dose Rate Limits	Bolus Limits	4		
Т	Generic Name	External ID	Displayed Name	Concentration	Dose Rate
L				(or Container	Dosing Unit
L	ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr
L	DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg / mL	mL/hr
Т	DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min
	HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr
	OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min
L	onnoun				

- 2. Select a medication.
- 3. Click **Remove** from CCA.
- 4. From the **Confirm Remove from CCA** pop-up, click **Remove**.

Confirm Remove from CCA	×
Remove from: Main Floor	
Medication Entries	
HEPARIN 25 000 7500 units / mL	
Remove Cancel Help	

Note: The medication entry is not removed from the Master Drug Formulary.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Working with the Master Drug Formulary

**Note:** Refer to the Rule Set Fields on page 206 in this chapter for information on allowable ranges.

#### To add a medication entry in the Master Drug Formulary:

- 1. Select Master Drug Formulary as the Source List.
- 2. From the Source List, click Add.

Í	ſ	Source List: Maste Master Drug Formula		Add Edit	) <u>View</u>	Delete
		Dose Rate Limits	Bolus Limits			}
		Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit
	L	ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr 3
	L	AMIODARONE	1719	AMIODARONE	50 mg / 3 mL	mL/hr
	L	DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg /mL	mL/hr
	L	DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min
	L	HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr
	L	OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/mi
	L	VANCOMYCIN	577	VANCOMYCIN	500 mg / 10 mL	mL/hr 🤰
						↓
	_ił	orary Name: User Gu	ide		Infus	er: Sapphirs

3. Select the Generic Name for the medication list.

All Medications						
Show generic names beginnii	ng with 👻					
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	
MITOXANTRONE	NOVANTRONE (EQ)	1387	2 MG	1 ML	**	
MIVACURIUM	MIVACRON	698	40 MG	20 ML	VIAL	
MORPHINE	MORPHINE	2738	25 MG	1 ML	**	
MORPHINE	MORPHINE	1131	10 MG	1 ML	VIAL	
MORPHINE	MORPHINE	1537	2 MG	1 ML	SYR	1
MORPHINE	MORPHINE	1089	250 MG	10 ML	SYR	
MORPHINE	MORPHINE	259	10 MG	1 ML	SYR	
MORPHINE (ANESTHESIA S	MORPHINE (ANESTHESIA S	2419	1 MG	0.1 ML	VIAL	1
MORPHINE 250 MG-D5W	MORPHINE 250 MG-D5W	1641		250 ML	IV BTL	
MORPHINE HIGH COME REAL	MODDHINE HICH CONC PCA	2561	15AMG	30 MI	VIA	

- 4. Click Select Medication.
- Note: Selecting a Generic Name from the medication list automatically populates the Displayed Name, External ID, the Therapeutic Class, and the Class ID fields.

If the desired generic name is not in the **Generic Name** list, you may add a medication to the Medication List. Alternatively, you can add the generic name by importing a new **Medication List** via the **Medication Import** function of the Hospira MedNet software.

- **Note:** The **Displayed Name** can be edited once populated. The maximum number of characters in the **Displayed Name** is 15. If the Displayed Name exceeds the character limit, the name will be automatically truncated. You can either accept or edit the Displayed Name before continuing.
  - 5. Configure the desired concentration values by either:
    - a. Checking No Concentration, or
    - b. Checking Diluent Only, or
    - c. Entering/selecting values for Medication Amount, Medication Unit, and Diluent Amount.

Source List: Add Rule Set			×
-Medication and Concentration	Generic Name (External ID)	(Strength / Volume) {Dosage Form}:	
MORPHINE (2738) (25 MG / 1 M	L) {**}		Select
Displayed Name:	Therapeutic Class:	Class ID:	
MORPHINE	OPIATE AGONISTS	28:08.08	
Summary: MORPHINE 25 m No Concentration Diluent Only Medication Amount: 25		nt Amount: mL	
Dose Rate Limits Dosing Unit: Select	LHL: LSL:	USL: UHL:	Therapies Basic (Continuous) Piggyback (Secondary) Multistep

- 6. Set the **Dose Rate Limits** by selecting the Dosing Unit from the drop-down list; then enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit.
- Note: Dose Rate Limits are optional but Dosing Unit must be selected.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

- 7. Check **Enable Bolus** to allow the medication to be delivered as a bolus. Entering limits is optional but only applies when this setting is enabled.
  - a. Select the **Bolus Amount Limits Unit** from the drop-down list and enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit. This is a required field when you select Enable Bolus.
  - b. Enter the desired values for **Bolus Time Limits**: Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit.
  - c. Select the **Bolus Dose Rate Limits** from the Dosing Unit drop-down list and enter the desired values for Lower Hard Limit, Lower Soft Limit, Upper Hard Limit, and Upper Soft Limit.

-Medication and Concentration -	Generic Name (F	vternal ID) (Strength )	Volume) {Dosage Form}:		
MORPHINE (2738) (25 MG / 1		acting and a second and a	rolancy (boougeronny)		elect
Displayed Name:	Therapeutic C	ass:	Class ID:		
MORPHINE	OPIATE AGONISTS	28:08.08			
Summary: MORPHINE 25 of No Concentration	Medication Unit:	Diluent Amount:	mL		
Dose Rate Limits Dosing Unit:	LHL: L	SL: USI	.: UHL:	Therapies	ıs)
				Piggyback (Secon	ndary)
Enable Bolus				V Multistep	
Bolus Amount Limits Unit:	LHL:	LSL:	USL:	UHL:	
Select			052.		
Maximum Bolus Amount Unit	: Maximum Bolus Amount:				
Bolus Time Limits (hh:mm) —					
	LHL:	LSL:	USL:	UHL:	
Bolus Dose Rate Limits					
Dosing Unit:	LHL:	LSL:	USL:	UHL:	
Select					
Please specify Dosin	a Unit				

- 8. For **Therapies**, check or uncheck Basic (Continuous), Piggyback (Secondary), and Multistep, as desired.
- 9. Click Save & Add Another or Save & Close to add the medication entry to the CCA.
- **Note:** When a medication entry is added to the Master Drug Formulary, it is not assigned to a CCA.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To edit a medication entry in the Master Drug Formulary:

- 1. Select Master Drug Formulary from the Source List.
- 2. From the Source List, select the medication entry you want to edit.
- 3. Click Edit.

Master Drug Form	ulary 👻	Add Edit	Vie <u>w</u>	Delete
Dose Rate Limits	Bolus Limits			
Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit
AMIODARONE	1719	AMIODARONE	50 mg / 3 mL	mL/hr
DEXTROSE (POLY.	2396	DEXTROSE (POLYO	250 mg /mL	mL/hr
DOPAMINE 800 M.	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min
HEPARIN 25 000	. 1642	HEPARIN 25 000	7500 units /	units/kg/hr
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	mL/hr
OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min
VANCOMYCIN	577	VANCOMYCIN	500 ma / 10 ml	mi /hr

Helpful Hint: You can also double-click a medication entry to display the Rule Set dialog box.

4. Make any desired changes.

Source List: Edit Rule Set			×
Medication and Concentration -	Generic Name (External ID)	(Strength / Volume) {Dosage Form}	
MORPHINE PCA (594) (30 MG		(	Select
Displayed Name:	Therapeutic Class:	Class ID:	
MORPHINE PCA	OPIATE AGONISTS	28:08.08	
No Concentration	Medication Unit: Dilue	ent Amount: mL	
Dose Rate Limits Dosing Unit: [mL/hr ]	LHL: LSL:	USL: UHL:	Therapies
Enable Bolus			✓ Multistep

- 5. Click Save & Close to save your changes.
- **Note:** When a medication entry is edited, the changes are reflected in the Master Drug Formulary and a pop-up displays the CCAs that are affected.

If the medication entry that is edited is assigned to only one CCA, the medication entry will also be updated in the Master Drug Formulary. If the medication entry that is edited is assigned to more than one CCA, a new medication entry will be created in the Master Drug Formulary.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To view a medication entry in the Master Drug Formulary:

- 1. Select Master Drug Formulary from the Source List.
- 2. From the Source List, select the medication entry you want to view.
- 3. Click View.

	Source List: Master Drug Formulary       Master Drug Formulary       Add       Edit       View       Delete							
	Dose Rate Limits Bolus Limits							
	Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit	De		
	AMIODARONE	1719	AMIODARONE	50 mg / 3 mL	mL/hr	3		
	DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg /mL	mL/hr			
	DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min	7		
	HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr	7		
	MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	mL/hr	ł		
	OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min	Ę		
	VANCOMYCIN	577	VANCOMYCIN	500 mg / 10 ml	ml /hr	ΞĘ		
					•	-		
L	ibrary Name: User Gu	ide		Infus	ser: Sapphire 1	3.x		

## 4. Click Close.

Source List: View Rule Set		
Medication and Concentration —	Generic Name (External ID) (Strength / Volume	) {Dosage Form}:
MORPHINE PCA (594) (30 MG	30 ML) {VIAL}	Select
Displayed Name: MORPHINE PCA	Therapeutic Class:         Class           OPIATE AGONISTS         28:08.08	s ID:
Summary: MORPHINE PCA : No Concentration Diluent Only Medication Amount: 30	Medication Unit: Diluent Amount: mL	
Dose Rate Limits Dosing Unit: mL/hr	LHL: LSL: USL:	UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL: UHL:

#### To delete a medication entry from the Master Drug Formulary:

- 1. Select Master Drug Formulary from the Source List.
- 2. From the Source List, select the medication entry you want to delete.
- 3. Click Delete from Master Formulary.

Source List: Master Drug Formulary Master Drug Formulary Add Edit View Delete						
Dose Rate Limits	Bolus Limits					
Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit		
DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg / mL	mL/hr		
DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min		
HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr		
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	mL/hr		
OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min		
VANCOMYCIN	577	VANCOMYCIN	500 mg / 10 mL	mL/hr		
VASOPRESSIN	2530	VASOPRESSIN	20 units / 1 mL	units/min		

### 4. Click Delete.

Source List: Delete Rule Set			×
Medication and Concentration —	Generic Name (External ID)	(Strength / Volume) {Dosage Form}:	
VASOPRESSIN (2530) (20 UNI	TS / 1 ML) {**}		Select
Displayed Name:	Therapeutic Class:	Class ID:	
VASOPRESSIN	PITUITARY	68:28.00	
Summary: VASOPRESSIN 2 No Concentration  Diluent Only  Medication Amount: 20	20 units / 1 mL Dosed in units/mir         Medication Unit:       Diluer         Units <ul> <li>1</li> </ul>	nt Amount: mL	
Dose Rate Limits Dosing Unit:	LHL: LSL:	USL: UHL:	Therapies ✓ Basic (Continuous) ✓ Piggyback (Secondary)
Enable Bolus	Delete	<u>C</u> ancel <u>H</u> elp	[ √] Multistep

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

A **Delete Medication** pop-up displays only if a CCA is affected. If not, the entry is deleted and there is no confirmation.

5. Click OK.

Delete Medication	x
Deleting this medication entry will remove it fro the master formulary as well as from the followin CCAs:	
Main Floor	
<u>OK</u> <u>Cancel</u>	

#### To copy to a Target CCA:

- 1. Select a medication entry from the Master Drug Formulary.
- **Note:** A Target List CCA must be selected before you can copy a medication entry to a Target CCA from the Master Drug Formulary.
  - 2. Click Copy to Target CCA.

Master Drug Formulary  Add Edit View Delete Copy to Target CCA							
Dose Rate Limits Bolus Limits							
Generic Name	External ID	Displayed Name	Concentration (or Container	Dose Rate Dosing Unit	Dose Rate Lower Hard Limit	Dose Rate Lower Soft Limit	Dose Rate Up Soft Limit
ACYCLOVIR	1701	ACYCLOVIR	500 mg / 10 mL	mL/hr			
AMIODARONE	1719	AMIODARONE	50 mg / 3 mL	mL/hr			
DEXTROSE (POLY	2396	DEXTROSE (POLYO	250 mg / mL	mL/hr			
DOPAMINE 800 M	2186	DOPAMINE 800 MG	400 mg / 250 mL	mcg/kg/min			1
HEPARIN 25 000	1642	HEPARIN 25 000	7500 units /	units/kg/hr		5	30
MORPHINE PCA	594	MORPHINE PCA	30 mg / 30 mL	mL/hr			
OXYTOCIN	537	OXYTOCIN	10 units / 1 mL	milliUnits/min			
				•			

3. Click Copy on the Confirm Copy to CCA pop-up.

1	Confirm	Copy to CCA	x
		Master Drug Formulary Main Floor	
	Medication	Entries	
	AMIODAF	CONE 50 mg / 3 mL	
	(	Copy Cancel Help	

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Notes:

# **Chapter 13: Master Infuser Setup**

# **Plum 360 Master Infuser Settings**

The Plum 360 Master Infuser Settings view allows you to select the following infuser settings:

- Continue Rate
- Callback Notification
- Deliver Together
- Force Pump to Accept Drug Library During Power Down
- Auto-program Rejection Reason Timeout (seconds)
- Maximum Standby Time (hours)
- Default Clinical Use

To display the **Master Infuser Settings** view, open a Worksheet and click the **Master Infuser Setup** tab. (For instructions on opening a Worksheet, see **Chapter 5: The Library Directory** on page 27).

🚽 Hospira MedNet™ Meds™ - Plum User Guide Library				_ <b>_ _ _ _</b>
Drug Library Management   Reports   CCA Seup Master Infuse	r Setup			
		Restore Default Values	Save Cagcel	⊈lose <u>H</u> elp
Continue Rate	Callback Notification			
☞ KVO	C Yes			
C Rate	@ No			
Deiver Together	Force Pump to Accept Drug Library During Powe	er Down		
Piggyback	C Yes			
C Concurrent	No			
- Auto-program Rejection Reason Timeout (seconds)	Maximum Standby Time (hours)			
Timeout: 15 [10 - 30]	Maximum Standby Time: 72 [24 - 72]			
- Default Clinical Use				
NOT SPECIFIED				
NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updating this field will update the Clinical Use in rule sets that use this default Clinical Use.				
Library Name: Plum User Guide Library	Infuser: Plum A+ 15.x Status	s: Worksheet Modified: Aug 16 2	013 10:47AM Mode: Edit	User: mednet_admin

# **Continue Rate**

The *Continue Rate* setting allows you to select the default rate the infuser switches to after a therapy has completed. The Continue Rate options are *KVO* and *Rate*. KVO (Keep Vein Open) is a very low rate (1 mL/hr) that reduces the potential for clotting at the infusion site. Rate is the same delivery rate as the completed therapy. The Continue Rate setting can be changed when programming the infuser:

- Select **KVO** to make the default continue rate KVO.
- Select **Rate** to make the default continue rate the same as the completed therapy's rate.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### **Callback Notification**

The *Callback Notification* setting, when enabled, causes the infuser to emit an audible nurse callback alarm and display a notification between steps of a multi-step infusion, a piggyback infusion, or after a loading dose. The default Callback Notification setting is **No** (disabled). This setting can be changed when manually programming the infuser. For more information on nurse callback alarms, refer to the infuser's system operating manual.

### **Deliver Together**

The *Deliver Together* setting allows you to choose the default two-line delivery method. This functionality defines the default relationship between Line A and Line B on the infuser. The Deliver Together options are **Piggyback** and **Concurrent**. When Piggyback is selected, Line A delivery stops while Line B infuses. Line A delivery resumes when Line B delivery is complete. When Concurrent is selected, both lines infuse at the same time. The Deliver Together setting can be changed when programming the infuser.

- Select Piggyback to make the default deliver together setting piggyback
- Select Concurrent to make the default deliver together setting concurrent

### Force Pump to Accept Drug Library During Power Down

This setting determines if the infuser will automatically install a new Medication Library upon infuser turn off. If setting is **Yes**, the infuser will install library without prompting user during power down. The default setting is **No**.

### Auto-program Rejection Reason Timeout (seconds)

When an auto-program is rejected by Hospira MedNet, a rejection reason appears on the infuser to notify the nurse that the auto-program has been rejected prior to sending to the infuser. The timeout setting allows you to set the length of time the message will remain on the infuser's screen. The range is 10-30 seconds and the default is 15 seconds.

### Maximum Standby Time (hours)

The *Maximum Standby* setting allows you to select the period of time the infuser can wait before beginning a therapy. The Standby setting *cannot* be overridden when programming the infuser.

**Note:** This setting affects both delayed start and standby. If enabled, both will be available at the infuser. If disabled, neither will be available at the infuser.

The range is 24 to 72 hours in one-hour increments. The default is 72 hours.

### **Default Clinical Use**

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The *Default Clinical Use* setting allows you to change the "NOT SPECIFIED" value entered in a CCA to the Default Clinical Use you enter.

**Note:** The value entered as Default will be attributed to ALL entries marked "NOT SPECIFIED" in all CCAs and in the Master Drug Formulary.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To configure the master infuser settings:

- 1. Click the Master Infuser Setup tab.
- 2. Select the desired option for each setting.
- 3. When finished making selections, click Save.

Drug Likrary Management   Reports       CCA Setup.       Master Infuser Setup         Continue Rate       Control       Control       Control         Continue Rate       Control       'Yes       'Res       'Res         Colever Together       Control       'Yes       'Res       'Res         Concurrent       Pagyback.       'Yes       'Res       'Res         Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]         Default Chical Use       Morinum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]         Default Chical Use       Morinum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]         Default Chical Use       Morinum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]         Default Chical Use The Out of the Value Attended the chical Use In use to the Adapt Chical Use The Value Time (The Value Time)       Maximum Standby Time: [72] [24 - 72]       Maximum Standby Time: [72] [24 - 72]	🛃 Hospira MedNet™ Meds™ - Plum User Guide Library		
Continue Rate © IVO © Rate © Rate © Refer © Regether © Poggyback © Concurrent Auto-program Rejection Reason Timeout (seconds) Timeout: [15] [10 - 30] Confaut Clrical Use NOTS PECIFIED NOTS PECIFIED NOTS IF the Clrical Use Field in a rule sets blank then the Cirical Use NOTS IF the Clrical Use Field in a rule set is blank then the Cirical Use NOTS IF the Clrical Use Field in a rule set is blank then the Cirical Use	Drug Library Management   Reports   CCA Setup   Master Infuser	r Setup	
Image: Contract C		Restore Default Values Save Cancel Glose He	0
Image: Contract C			
C Rate       Image: No         Delver Together       Porce Pump to Accept Drug Library During Power Down         Image: Porce Pump to Accept Drug Library During Power Down       Image: Porce Pump to Accept Drug Library During Power Down         Image: Porce Pump to Accept Drug Library During Power Down       Image: Porce Pump to Accept Drug Library During Power Down         Image: Porce Pump to Accept Drug Library During Power Down       Image: Porce Pump to Accept Drug Library During Power Down         Image: Porce Pump to Accept Drug Library During Power Down       Image: Porce Pump to Accept Drug Library During Power Down         Auto-program Rejection Reason Timeout (seconds)       Image: Porce Pump to Accept Drug Library During Power Down         Auto-program Rejection Reason Timeout (seconds)       Image: Porce Pump to Accept Drug Library During Power Down         Tmeout: [15] [10 - 30]       Image: Porce Pump to Accept Drug Library During Power Down         NDTE: If the Chinal Use Field In a rule set is blank them the chinal Use Interest there Aree: Updating this field will update the Chinal Use Interest the trial Base and the Acting Library During Power Powe	Continue Rate	Callback Notification	
Deliver Together       Force Pump to Accept Drug Ubrary During Power Down         © Piggybad: <ul> <li>Yes</li> <li>No</li> </ul> Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time (hours)         Timeout:       IS       [10 - 30]         Default Clinical Use       Maximum Standby Time:       72         NOTE:       Folicial Use in a rule set is blank then the Chinical Use in rule sets that use this idefault Clinical Use.       Maximum Standby Time:		C Yes	
Image: Piggyback:       Image: Piggyback:         Image: Concurrent       Image: Piggyback:         Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time (hours)         Timeout:       Image: Piggyback:         Image: Piggyback:       Maximum Standby Time:         Pofault Clinical Use       Maximum Standby Time:         NOTE:       If the Clinical Use is blank then the Clinical Use wilb to updated with the value entered here. Update the Sincial Use in rule sets that use this default Clinical Use.	C Rate	@ No	
Image: Piggyback:       Image: Piggyback:         Image: Concurrent       Image: Piggyback:         Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time (hours)         Timeout:       Image: Piggyback:         Image: Piggyback:       Maximum Standby Time:         Pofault Clinical Use       Maximum Standby Time:         NOTE:       If the Clinical Use is blank then the Clinical Use wilb to updated with the value entered here. Update the Sincial Use in rule sets that use this default Clinical Use.			
Image: Piggyback:       Image: Piggyback:         Image: Concurrent       Image: Piggyback:         Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time (hours)         Timeout:       Image: Piggyback:         Image: Piggyback:       Maximum Standby Time:         Pofault Clinical Use       Maximum Standby Time:         NOTE:       If the Clinical Use is blank then the Clinical Use wilb to updated with the value entered here. Update the Sincial Use in rule sets that use this default Clinical Use.			
C Concurrent       If No         Auto-program Rejection Reason Timeout (seconds)       Maximum Standby Time (hours)         Timeout:       Its [10 - 30]         Default Chincal Use       Maximum Standby Time:         NOTE:       If the Chincal Use field in a rule set is blank then the Chincal Use wil be updated with the value entered here. Update the Sincial Use in rule sets that use this default Chincal Use.	Deliver Together	Force Pump to Accept Drug Library During Power Down	
Auto-program Rejection Reason Timeout (seconds) Timeout: IS [10 - 30] Default Chical Use NOTE: If the Cinical Use field in a rule set is blank then the Cinical Use wilb the updated with the value entered here. Updaten With Ein Value entered here. Updaten this field will use in rule sets that use this default Clinical Use.	Piggyback	C Yes	
Tmeout:       IS       [10 - 30]         Maximum Standby Time:       72       [24 - 72]	C Concurrent	( No	
Tmeout:       [IS]       [10 - 30]         Default Clinical Use			
Tmeout:       IS       [10 - 30]         Maximum Standby Time:       72       [24 - 72]			
Default Clinical Use NOT SPECIFIED NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updaten this field will update the Clinical Use in rule sets that use this default Clinical Use.	Auto-program Rejection Reason Timeout (seconds)	Maximum Standby Time (hours)	
Default Cinical Use NOT SPECIFIED NOTE: If the Cinical Use field in a rule set is blank then the Cinical Use will be updated with the value entered here. Updating this field will quote the Cinical Use in rule sets that use this default Cinical Use.	Timenut: 15 [10 - 30]	Maximum Standby Time: 72 [24 - 72]	
NOT SPECIFIED NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updated his field will use the Clinical Use in rule sets that use this default Clinical Use.	moon he he eet	reaction according to the fact that	
NOT SPECIFIED NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updated his field will use the Clinical Use in rule sets that use this default Clinical Use.			
NOT SPECIFIED NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updated his field will use the Clinical Use in rule sets that use this default Clinical Use.	- Default Cloical Lice		
NOTE: If the Clinical Use field in a rule set is blank then the Clinical Use will be updated with the value entered here. Updating this field will update the Clinical Use in rule sets that use this default Clinical Use.			
here. Updating this field will update the Clinical Use in rule sets that use this default Clinical Use.	NOTE: If the Clinical Use field in a rule set is blank then		
rule sets that use this default Clinical Use.	the Clinical Use will be updated with the value entered bere. Lindation this field will update the Clinical Use in		
brary Name: Film User Guide Unary	rule sets that use this default Clinical Use.		
abrary Name: [Film User Guide Library Infuser: [Film 4+15.y Status: Worksheet   ModRed: [Aug 16 2013 10-472M]   Mode [Film   Lisen [Surdian admin]			
abrary Name: [Film User Guide Library Infuser: [Film 4+15.v] Status: [Worksheet   ModRed: [Aug 16 2013 10-472M]   Mode [Film   Lage [Superball admin]			
there Name: Film User Guide Library Infuser: Film 4+ 15 y Status: Worksheet Muddled: June 16 2013 10-472M Mode Film User Filmburg and			
brary Name: Film Liter Guide Library Infuser: Film A+ 15.x Status: Worksheet Modified: Jaun 16 2013 10:474M Mode: Edu Liter: Inachaet admin			
and the set of the set	Ubrary Name: Plum User Guide Library	Infuser: Plum A+ 15.x Status: Worksheet Modified: Aug 16 2013 10:47AM Mode: Edit User: mednet_av	fmin

# **Note:** To save changes to the master infuser settings, you must click **Save** before navigating away from the **Master Infuser Settings** view.

The selections made in the Master Infuser Settings view apply to all CCAs in the library.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# **Plum A+ Master Infuser Settings**

The Plum A+ Master Infuser Settings view allows you to select the following infuser settings:

- Continue Rate
- Callback Notification
- Deliver Together
- Enable Delay/Standby

To display the **Master Infuser Settings** view, open a Worksheet and click the **Master Infuser Setup** tab. (For instructions on opening a Worksheet, see **Chapter 5: The Library Directory** on page 27).

Mospira MedNet™ Meds™ - User Gui	ide	_		
Drug Library Management Reports CCA	Setup Master Infuser Setup			
			Save	Cancel Close Help
Continue Rate	Callback Notification			
() KVO	Yes			
🔿 Rate	No			
Deliver Together	Enable Delay/Standby			
e Piggyback	Yes			
Concurrent	⊚ No			
Library Name: User Guide	Infuser: Plum A+ 13.x	Status: Worksheet Mod	lified: Jul 16 2014 02:13PM	Mode: Edit User: mednet_admin
Library Name: User Guide	Influser: Plum A+ 13.x	Status: worksneet Mod	ineu: jui 16 2014 02:13PM	mode: cuit User: mednet_admin

### **Continue Rate**

The *Continue Rate* setting allows you to select the default rate the infuser switches to after a therapy has completed. The Continue Rate options are *KVO* and *Rate*. KVO (Keep Vein Open) is a very low rate (1 mL/hr) that reduces the potential for clotting at the infusion site. Rate is the same delivery rate as the completed therapy. The Continue Rate setting can be changed when programming the infuser:

- Select **KVO** to make the default continue rate KVO.
- Select **Rate** to make the default continue rate the same as the completed therapy's rate.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### **Callback Notification**

The *Callback Notification* setting, when enabled, causes the infuser to emit an audible nurse callback alarm and display a notification between steps of a multi-step infusion, a piggyback infusion, or after a loading dose. The default Callback Notification setting is **No** (disabled). This setting can be changed when manually programming the infuser. For more information on nurse callback alarms, refer to the Hospira Plum A+/A+3 System Operating Manual.

#### **Deliver Together**

The *Deliver Together* setting allows you to choose the default two-line delivery method. This functionality defines the default relationship between Line A and Line B on the infuser. The Deliver Together options are **Piggyback** and **Concurrent**. When Piggyback is selected, Line A delivery stops while Line B infuses. Line A delivery resumes when Line B delivery is complete. When Concurrent is selected, both lines infuse at the same time. The Deliver Together setting can be changed when programming the infuser.

- Select Piggyback to make the default deliver together setting piggyback
- Select Concurrent to make the default deliver together setting concurrent

#### **Enable Delay/Standby**

The *Enable Delay/Standby* setting allows you to select the standby setting, **Yes** (enabled) or **No** (disabled). When enabled, the infuser can be programmed to wait for a period of time before beginning a therapy. When disabled, the option to program a waiting period before a therapy begins is not available. The Standby setting *cannot* be overridden when programming the infuser.

**Note:** This setting affects both delayed start and standby. If enabled, both will be available at the infuser. If disabled, neither will be available at the infuser.

- Select Yes to enable Delay/Standby
- Select No to disable Delay/Standby

Mospira MedNet™ Meds™ - User Gui	de	_			
Drug Library Management Reports CCA S	Setup Master Infuser Setup				
			Save	Cancel <u>C</u> lose	Help
Continue Rate	Callback Notification				
() KVO	Yes				
⊙ Rate	No				
Deliver Together	Enable Delay/Standby				
eiggyback	Yes				
<ul> <li>Piggyback</li> <li>Concurrent</li> </ul>	© No				
Library Name: User Guide	Infuser: Plum A+ 13.x	Status: Worksheet	Modified: Jul 16 2014 02:13PM	Mode: Edit User: r	nednet_admin

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

#### To configure the master infuser settings:

- 1. Click the Master Infuser Setup tab.
- 2. Select the desired option for each setting.
- 3. When finished making selections, click Save.

Mospira MedNet™ Meds™ - Use	er Guide	
Drug Library Management Reports	CCA Setup Master Infuser Setup	
		Save Cancel Glose Help
Continue Rate	Callback Notification	
KVO	) Yes	
© Rate	No	
L		
Deliver Together	Enable Delay/Standby	
Piggyback	Yes	
Concurrent	No	
L		
Library Name: User Guide	Infuser: Plum A+ 13.x	Status: Worksheet Modified: Jul 16 2014 02:13PM Mode: Edit User: mednet_admin

Note: To save changes to the master infuser settings, you must click **Save** before navigating away from the **Master Infuser Settings** view.

The selections made in the Master Infuser Settings view apply to all CCAs in the library.

# LifeCare PCA Master Infuser Settings

The LifeCare PCA Master Infuser Settings view allows you to select the following infuser settings:

- Nurse Call Relay Contacts
- Auto-programming
- Purge Capability
- PCA Tone
- History Format
- Clock Format
- Alarm Sounds

To display the Master Infuser Settings view, open a Worksheet and click the **Master Infuser Setup** tab. (For instructions on opening a Worksheet, see **Chapter 5: The Library Directory** on page 27).

🗹 Hospira MedNet™ Meds™ - User Guide Li	brary PCA			
Drug Library Management   Reports   CCA Setup	Master Infuser Setup Protocols			
			Save	icel Gose Help
Nurse Call Relay Contacts	PCA Tone C Key tone on successful request only C Different Accept/Reject tones C Same key tone on all PCA requests	Alarm Sounds Alarm 1 Alarm 2 Alarm 3		
		C Alarm 4		
Auto-programming	History Format	C Alarm 5		
C Enabled	1 & 24 hours			
⑦ Disabled	C Hour by hour			
Purge Capability	Clock Format			
Enabled	C 12-hour Clock			
C Disabled	24-hour Clock			
Library Name: User Guide Library PCA	Infuser: LifeCare PCA	5.x/7.x Status: Worksheet Modifie	ed: Aug 16 2013 10:56AM M	lode: Edit User: mednet_admin

# **Nurse Call Relay Contacts**

The *Nurse Call Relay* setting allows you to set up the nurse call relay system. The pump needs to be connected to the nurse call relay system in the hospital using the jack on the rear of the pump.

The proper configuration (**Normally Open** or **Normally Closed**) will depend on how the health care facility has set up their particular nurse call relay system. The default setting is **Normally Open**.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

### Auto-Programming

Auto-Programming is a program received from a bar code enabled point-of-care (BCMA) system requiring clinician confirmation prior to administration. Auto-programming requires that the health care facility have a BCMA system enabled to use this function. The default setting is Disabled.

# **Purge Capability**

The Purge Capability setting allows you to enable the screen prompts on the pump to ask if the clinician would like to purge the set before programming the pump. The default is Enabled.

# PCA Tone

The PCA Tone setting allows you to determine what tones are emitted from the pump when the pendant is pressed by the patient. A successful request means a PCA dose was delivered to the patient, while a Reject means a PCA dose was not delivered (because it was during the lockout period). The default is Different Accept/Reject tones.

- Key tone on successful request only An audible beep is heard when a PCA dose is successfully administered.
- **Different Accept/Reject tones** A different audible beep is heard when a PCA dose is accepted or rejected. This is the default setting.
- Same key tone on all PCA requests The same audible beep is heard regardless of whether a PCA dose was successful or rejected.

## **History Format**

The History Format setting allows you to select the format of the history (infusions, PCA doses, and event log) when viewed on the pump screen.

- 1 & 24 hours- shows infusion summary for the last one and 24 hours
- Hour by hour shows infusion summary by hour

The default is 1 & 24 hours.

### **Clock Format**

The Clock Format setting allows you to set the display of the clock to either a 12-hour or a 24-hour format. The default is a 24-hour Clock format.

# Alarm Sounds

The Alarm Sounds setting allows you to select different rhythms or cadences for the alarms on the pump. This allows you to differentiate the pump alarm sound from other devices. There are five sounds available. The default is Alarm 1.

**Note:** To save changes to the master infuser settings, you must click **Save** before navigating away from the **Master Infuser Settings** view.

The selections made in the Master Infuser Settings view apply to all CCAs in the library.

# **SapphirePlus Master Infuser Settings**

The SapphirePlus Master Infuser Setup view allows you to select the **Device-Level Program** Lock/Unlock.

This feature allows you to set a passcode that the clinician can use to lock the pumps so program and pump parameters cannot be modified. You cannot start or stop a delivery when the device is locked.

Hospira MedNet <sup>™</sup> Meds <sup>™</sup> - User Guide	-			X
Drug Library Management Reports CCA Setup Master Infuser Setup	]			
		Restore Default Values	Save Cancel	<u>Q</u> ose <u>H</u> elp
Device-Level Program Lock/Unlock				
Passcode: 7770 [1000 - 7000, 7770]				
Library Name: User Guide	Infuser: Sapphire 13.x	Status: Worksheet Modified: Ju	22 2014 04:43PM Mode: Ed	it User: mednet_admin

**Note:** To save changes to the master infuser settings, you must click **Save** before navigating away. The selection you make applies to all SapphirePlus CCAs in the library.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Notes:

# **Appendix A: Hospira MedNet Integrator**

# Overview

Hospira MedNet Integrator provides interfaces to a hospital's enterprise level applications and serves as the conduit for the exchange of data between infusers, the Hospira MedNet server, and a variety of hospital information systems.

When interfaced to a BCMA system, Hospira MedNet Integrator supports electronic documentation of IV administration events into the patient record. This integration also allows the BCMA system to incorporate the IV infusion rate into the five Rights verification process.

The workflow for the clinician is as follows:

- Scan the patient identification, the medication container, and the pump using the BCMA application and its bar code scanner
- Program the infuser based on the physician's order
- Confirm the programming and start the infusion

Once the infusion has started, Hospira MedNet sends the program values (medication/ concentration, dose, rate, volume to be infused, and duration) back to the BCMA system for review by the clinician, verification, and electronic charting.

When interfaced to a pharmacy system, the Hospira MedNet Integrator Formulary Interface provides a mechanism for the pharmacist to assure that medication entries in the drug library are in synch with the hospital formulary. (See Appendix B: Hospira MedNet Meds Formulary Interface.)

**Note:** The specific functionality available to you will depend on your institution's Hospira MedNet software license.

# Setting up Hospira MedNet Integrator for BCMA integration

Define a bar code strategy for identifying each channel of the infusers that will be used; affix the bar code label to each channel

**WARNING:** To ensure that information is sent to the Bar Code Medication Administration (BCMA) system from the correct infuser, Hospira strongly recommends that before go-live with Hospira MedNet Integrator you verify the bar code label affixed to each infuser corresponds to the correct channel.

**Important:** Please compare the infuser data on the infuser with the data received from the BCMA. In the event of a discrepancy, please chart the infuser data manually.

**Note:** Depending on the BCMA system, scanning of the patient, medication, and pump may also occur after the infusion has been started.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center.

# Notes:

# Appendix B: Hospira MedNet Meds Formulary Interface

# Overview

The Hospira MedNet Meds Formulary Interface provides the capability to synchronize the Medication List with your hospital formulary. The formulary information in the Medication List is automatically updated via a Health Level 7 (HL7) interface engine when you make a change to one of the corresponding fields in the pharmacy system. This simplifies the process of assuring that the medications in your drug library are consistent with your formulary.

The Formulary Interface includes configurations that make it easy to filter the Medication List to include only IV medications appropriate for the drug library. Changes that are a result of pricing or packaging changes that do not impact the Medication List are also restricted. All changes are displayed in a "pending" state until you review them. Pending medications can result from additions, updates, or deletions to your hospital formulary.

The Formulary Interface provides the ability to configure each dosage form or medication ID so that medications with these dosage forms or IDs can be either included or excluded from the Medication List. Each added, changed, or deleted medication can be reviewed before it is accepted into the Medication List.

An External ID is a required field for each item in the Medication List.

For general instructions on Adding, Editing and Deleting Medications, see **Chapter 4:** Medication List, on page 11.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

# Formulary Interface Functionality

The Formulary Interface performs the following functions when an HL7 MFN (Master File Maintenance) transaction is received from the pharmacy system:

### Validate Message

Validates message type, format, and presence of required fields

## Inactive Med Check

If Active Flag = "I" (inactive) then set Formulary code to "D" (delete). Message will process only if the medication's External ID is found in the Medication List and the medication is not obsolete and it passes the External ID Check and Dosage Form Check described below.

### External ID Check

Messages with an External ID specifically marked to be "included" or "excluded" are processed accordingly

### Dosage Form Check

Messages with "excluded" Dosage Forms are not processed unless they have an External ID which is "included"

### Character Replacement

- Commas are removed
- Double quotes are replaced with single quotes •
- Left or right angle brackets are replaced with left or right square brackets

Duplicate transactions and transactions which contain changes to data fields that are not stored in the Medication List are ignored.

# **Medication Updates**

The following fields are considered primary significant fields:

- Generic Name
- Brand Name
- External ID
- Strength Amount
- Strength Units
- Volume Amount
- Volume Units
- Dosage Form Code
- Dosage Form Description

A change to one or more primary significant fields will create a pending update.

The following fields are considered secondary significant fields:

- NDC
- Therapeutic Class Code
- Therapeutic Class Description

Changes to secondary fields will update the Medication List automatically. A pending update is not created, and you will not be required to accept these changes.

# Considerations for using the Medication List with the Formulary Interface:

# Dosage Form and Therapeutic Class Tables

The contents of the Dosage Form and Therapeutic Class tables (visible in the Medication List in the Add, Edit, and Delete Medication views and the Pending Addition, Update, and Deletion views) are determined by the information in the Medication List import file. With the Hospira MedNet Formulary Interface, these tables will be updated as new Dosage Forms and Therapeutic Classes are processed.

# Medication List Import and Export

The Medication List import function deletes any pending medications when a new medication list is imported.

The Medication List export function does not include any pending medications.

# Managing Medications

The Medication List's functionality for Adding, Editing, and Deleting medications works independently of the Formulary Interface. You may Add, Edit, and Delete medications in the Medication List even if the change did not originate in the pharmacy system.

Hospira MedNet Meds Software User Guide

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

# **Medication List View:**

With the Formulary Interface, the Medication List view displays either:

- pending medications
- active medications
- pending and active medications (combined)

with:

- any Generic Name or External ID
- Generic Names beginning with (any character)
- External IDs beginning with (any character)

The Medication List view displays

- Generic Name
- Brand Name
- External ID
- Strength
- Volume
- Dosage Form
- Received/Updated
- Status

Active medications display in black, pending additions display in green, pending updates display in blue, and pending deletions display in red.

orary Directory Medications Configura	ation						
now active medications	✓ with any	generic name or exte	rnal ID 🔻		Apply	Refresh	Active meds:3
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status
% Hypertonic NaCl		3				11/07/2013 15:32	active
ociximab (Reopro)		132	10 mg	10 mL		11/07/2013 15:32	active
etylcysteine		133				11/07/2013 15:32	active
yclovir (Zovirax)		5				11/07/2013 15:32	active
enosine *FFR		337				11/07/2013 15:32	active
enosine Syringe		267				11/07/2013 15:32	active
oumin 25%		6				11/07/2013 15:32	active
oumin 5%		7				11/07/2013 15:32	active
lesleukin (IL-2)		210				11/07/2013 15:32	active
mtuzumab (Campath)		211				11/07/2013 15:32	active
opurinol IVPB		8				11/07/2013 15:32	active
eplase TPA Occlusion		135				11/07/2013 15:32	active
eplase TPA Pulm Emb		134				11/07/2013 15:32	active
eplase TPA Stroke		136				11/07/2013 15:32	active
ifostine (Ethyol)		205				11/07/2013 15:32	active
ikacin IVPB		9				11/07/2013 15:32	active
inocaproic Acid Infus		138				11/07/2013 15:32	active
inocaproic Acid IVPB		137				11/07/2013 15:32	active
inophylline Infusion		10				11/07/2013 15:32	active
inophyline IVPB		11				11/07/2013 15:32	active
inophyline Reversal		265				11/07/2013 15:32	active
iodarone		140				11/07/2013 15:32	active
iodarone (other) IVPB		341				11/07/2013 15:32	active
iodarone Bolus ACLS		274				11/07/2013 15:32	active
iodarone Rapid Bolus IVPB		139				11/07/2013 15:32	active
photericin ABELCET		13				11/07/2013 15:32	active
photericin AMBisome		14				11/07/2013 15:32	active
photericin B (Regular)		12				11/07/2013 15:32	active
picillin IVPB		16				11/07/2013 15:32	active
picilin-Sulb (Unasyn)		15				11/07/2013 15:32	active
tivenin CroFAB		141				11/07/2013 15:32	active
roptinin Infusion		268		-		11/07/2013 15:32	active
		268		-			active
rotinin Loading Dose		317				11/07/2013 15:32	active
gatroban (Other)		31/				11/07/2013 15:32	active

Helpful Hint: Use the **Refresh** button to refresh the contents of the pending (or active and pending) view if any new formulary update transactions have occurred since you opened the Medication List.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

# **Review a Pending Medication**

Medications in the "pending medications" view can be reviewed for inclusion in the Medication List. Each pending medication can be accepted as is, edited, or rejected.

# **Reviewing a Pending Addition**

- 1. From the Medication List, select pending medications from the Show drop-down list.
- 2. Select a medication entry with a pending addition status (green).

	pending medications	Brand Name	External ID	Strength	Volume	Apply Dosage Form	Refresh Pendin Received/Updated	g meds:5 Status
- 11	FEP	brand Name	303	Strength	volume	Dosage Form	11/07/2013 16:25	active
- 11	FFP		303				11/07/2013 16:25	pending deletion
- 11	Itraconazole (Sporanox)		71				11/07/2013 16:25	active
	Itraconazole (Sporanox)		71				11/07/2013 16:25	pending update
	Piggyback 150 ml		320				11/07/2013 16:25	pending addition
	Tobramycin IVPB		120				11/07/2013 16:25	pending addition
- 11	Vancomvcin PREOP		345				11/07/2013 16:25	pending addition

3. Click **Review**.

M Pending Addit	tion	
	New Medication	
Generic Name:	Tobramycin IVPB	
Brand Name:		
External ID:	120	
NDC:		
	Amount: Unit:	
Strength:		
Volume:		
Therapeutic Class		
Code:	NONE	
Description:	NONE	
	Code Description	
	NONE NONE	
Dosage Form Code:		
Description:		
	Code Description	
Status:	pending addition	
Source:	import	
Received: Last Edited On:	11/07/2013 16:25	
Last Edited On: Last Edited By:	11/07/2013 16:25 mednet_admin	
	(skip to previous or next in list)	Add Reject Close Help
	(sup to previous or next in list)	

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

4. You may add, make changes, or reject the medication. If you click Add, the medication's status will be changed to active. See the table below for a description of what happens when **Reject** is selected.

Rejecting a Pending Medication					
State	Result				
Pending addition	The medication will not be added to the Medication List				
Pending update	Changes are not applied to the existing medication				
Pending delete	The medication remains in the Medication List				

Note: Whenever you use the **Reject** button, a pop-up displays asking for confirmation of the action rejected.

- 5. Click Close to exit the screen.
- Note: The up and down arrow keys (bottom left of the screen) allow you to navigate through each entry without having to go back to the main view.

# **Reviewing a Pending Update**

1. From the Medication List, select pending medications from the Show drop-down list.

Generic Na	me	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status
FFP			303				11/07/2013 16:25	active
FFP			303				11/07/2013 16:25	pending deletion
Itraconazole (Sporanox)			71				11/07/2013 16:25	active
Itraconazole (Sporanox)			71				11/07/2013 16:25	pending update
Piggyback 150 ml			320				11/07/2013 16:25	pending addition
Tobramycin IVPB			120				11/07/2013 16:25	pending addition
Vancomycin PREOP			345				11/07/2013 16:25	pending addition

- 2. Select a medication entry with a pending update status (blue).
- 3. Click Review.

**Note:** Updated information is highlighted in pink (if the field is enabled) or dark pink (if it is not).

M Pending Upda	te	-			
<u></u>		Update			Existing Medication
Generic Name:	Itraconazole (Sporanox	)		Itraconazole (Sporanox)	
Brand Name:					
External ID:	71			71	
NDC:					
	Amount:	Unit:		Amount:	Unit:
Strength:	10	mg	1		
Volume:	10	mL			
Therapeutic Class					
Code:	NONE			NONE	
Description:	NONE			NONE	
Description:				NONE	
	Code NONE NONE	Description			
	NONE NONE				
Dosage Form					
Code:					
Description:					
Description.					
	Code	Description			
Status:	pending update			active	
Status: Source:	import			import	
Received:	11/07/2013 16:25			11/07/2013 16:25	
Last Edited On:	11/07/2013 16:25			11/07/2013 16:25	
Last Edited By:	mednet_admin			mednet_admin	
	(skip to previous or next	in list)		Upd	ate <u>R</u> eject Close <u>H</u> elp

- 4. You may accept the update as is, make changes to it in any of the editable fields, or reject the update entirely. The medication's status will be changed to active if the medication is accepted or changed. If rejected, the pending update status disappears but the medication remains in the active directory.
- 5. Click **Close** to exit the screen or use the up and down arrow keys to display either the previous or the next entry.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

# **Reviewing a Pending Deletion**

- 1. From the Medication List, select pending medications from the Show drop-down list.
- 2. Select a medication entry with a pending deletion status (red).

MedNet™ Meds™	-	-			_		
Library Directory Medications Configuration	ו						
Shor pending medications with any generic name or external ID  Agoly Refresh Pending medis:5							
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updated	Status
FFP		303				11/07/2013 16:25	active
FFP		303				11/07/2013 16:25	pending deletion
Itraconazole (Sporanox)		71				11/07/2013 16:25	active
Itraconazole (Sporanox)		71				11/07/2013 16:25	pending update
Piggyback 150 ml		320				11/07/2013 16:25	pending addition
Tobramycin IVPB		120				11/07/2013 16:25	pending addition
Vancomycin PREOP		345				11/07/2013 16:25	pending addition
Add Edit Delete	eview Preferences	] [	Export	Import	Pri <u>n</u> t	Save to File	Log Out Help

#### 3. Click Review.

Pending Dele	tion			_
		Existing Medication	 	
Generic Name:	FFP			
Brand Name:				
External ID:	303			
NDC:				
	Amount:	Unit:		
Strength:				
/olume:				
	-		 	
herapeutic Class				
Code:	NONE			
Description:	NONE			
	Code NONE NONE	Description		
Dosage Form		_		
Code:				
Description:				
	Code	Description		
Status:	pending deletion			
Gource: Received:	import 11/07/2013 16:25			
	11/07/2013 16:25			
ast Edited On:				
ast Edited On: ast Edited By:	mednet_admin			

- 4. Click **Delete** to delete the medication entry entirely or **Reject** to cancel the pending deletion and keep the medication active.
- 5. Click **Close** to exit the screen or use the up and down arrow keys to display the previous or next entry.

Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

## **Setting Preferences**

Important: You will need to have permissions to access this functionality.

The Configure Medication Interface Filter allows you to

- a. set filters to include or exclude individual dosage forms or medication IDs (External IDs) in the interface.
- b. automatically print a receipt, if you wish.

When the Formulary Interface is installed, a list of all medications in your pharmacy formulary including their dosage forms and descriptions will be imported.

1. Select the Preferences button on the Medication List view to open the **Configure Medication Interface Filter** settings.

orary Directory Medications Configurat	ion						
w pending medications	✓ with any g	eneric name or exter	nal ID 🔻		Apply	Refresh	Pending meds:5
Generic Name	Brand Name	External ID	Strength	Volume	Dosage Form	Received/Updat	ted Status
		303				11/07/2013 16:25	active
FP		303				11/07/2013 16:25	pending deletion
conazole (Sporanox)		71				11/07/2013 16:25	active
raconazole (Sporanox)		71				11/07/2013 16:25	pending update
yback 150 ml		320				11/07/2013 16:25	pending addition
amycin IVPB omycin PREOP		120 345				11/07/2013 16:25 11/07/2013 16:25	pending addition pending addition
on part recor					1	110010101010	perforting educion
Add Edit Delete	Review Preference	$\supset$	Export	Import	Pri <u>n</u> t	Sa <u>v</u> e to File	
2	Configure N	ledication Inter	face Filter				
	Automatical	y print a receipt	whenever a m	edication is	added edited	or deleted	
	Automatical	y print a receipt	Michever an	lealeadon is	audeu, euiteu,	or deleted.	
	Dosage Forms						
	Include	Code	De	scription			
	Yes INF:						
	Yes INH	AMP INH A	MP				
	Add	Edit	Delete				
			Dejette				
	External IDs -						
	Include		ID		1		
	Yes 315	3					
	Yes 287	4					
			Dalata				
	Add	Edįt	Delete				
	Add	Edịt					

2. Place a check mark in the box next to Automatically print a receipt whenever a medication is added, edited, or deleted to print a receipt on the default printer.

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Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibilithy Matrix available through your Hospira Support Center.

Verify your computer is connected to the default printer. A sample receipt is shown below.

```
HOSPIRA MEDNET(R) MEDS(TM)
Action: UPDATED a PENDING medication
Received On: 04/11/2014
                          13:59
Updated On: 05/18/2014 08:43
Updated By: patrickl
Source: interface
Original Definition:
    Generic Name: CEFEPIME
    Brand Name: MAXIPIME
    External ID: 2388
NDC: 51479-0055-10
    Strength: 2 GM
Volume: 1 ADV
    Therapeutic Class:
         Code: 08:12.06
         Description: CEPHALOSPORINS
    Dosage Form:
         Code: ADV
         Description: ADV
Final Definition:
    Generic Name: CEFEPIME
    Brand Name: MAXIPIME
External ID: 2388
    NDC: 51479-0055-20
    Strength: 2 GM
    Volume: 100 ML
    Therapeutic Class:
         Code: 08:12.06
         Description: CEPHALOSPORINS
    Dosage Form:
Code: BAG
Description: BAG
```

and the second second

# Managing Dosage Form Preferences

The Dosage Form list is populated when you import a Medication List for the first time, and is updated when new medications are received via the Formulary Interface. Therefore, you would only need to add, edit, or delete a Dosage Form infrequently.

### Add a Dosage Form

- 1. From the **Configure Medication Interface Filter**, in the Dosage Forms portion of the screen, upper half, select **Add**.
- 2. Enter the Dosage Form Code.
- 3. Enter the Dosage Form Code Description (optional).
- 4. Select Yes to include medications with this dosage form in the interface or No to exclude them.

Add Dosage I	Form
Code:	
Description:	
Include:	● Yes 💿 No
	Save Cancel Help

5. Click **Save** to exit the screen.

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#### Edit a Dosage Form

- 1. From the **Configure Medication Interface Filter**, in the Dosage Forms portion of the screen, highlight the entry you wish to edit.
- 2. Click Edit.

Dosage Fo	Code	Description
Yes	INFSYR	INFSYR
Yes	INH AMP	INH AMP
<u>A</u> dd External I		Dejete
External I Include	Ds	Delete
External I Include Yes	Ds	
External I Include	Ds	

3. Make your changes to Code, Description, or Include in the Edit Dosage Form pop-up.

Edit Dosage F	Form
Code:	2874
Description:	
Include:	
	Save Cancel Help

4. Click Save.

#### Delete a Dosage Form

- 1. From the **Configure Medication Interface Filter**, in the Dosage Forms portion of the screen, highlight the entry you wish to delete.
- 2. Click Delete.

	Dosage Fo Include Yes		Description	
	Yes	INH AMP	INH AMP	
1				
1				
	Add	l <u>E</u> dit	Delete	
			Delete	
	External I	IDs	Dejete	
		Ds	ID	
	External I Include Yes	Ds 3153		
	External I Include	Ds		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		
	External I Include Yes	Ds 3153		

The Dosage Form selected is deleted.

**Note:** If the Dosage Form you are deleting is used by one or more medications, you will get a **Dosage Form in Use** message asking if you are sure you want to delete the dosage form.

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## **Managing External ID Preferences**

- 1. From the **Configure Medication Interface Filter**, in the External IDs portion of the screen in the lower half, select **Add**.
- 2. Type in the External ID in the pop-up window.

Add External ID			
External ID: 2874			
Include: 💿 Yes 💿 No			
Save Cancel Help			

- 3. Select Yes to include this External ID in the Interface or No to exclude it.
- 4. Click **Save**. The External ID then displays in the External ID section of the Configure Medication Interface Filter window.

🗹 Configu	Configure Medication Interface Filter				
🔲 Automa	tically print a re	ceipt whenever a medication is added, edited, or deleted.			
Dosage Fo	rms				
Include	Code	Description			
Yes	INFSYR	INFSYR			
Yes	INH AMP	INH AMP			
Add	Edit	Delete			
	~				
External II					
Include		ID			
Yes	2874				
Add	Edit	Delete			
		Save Cancel Help			

5. Click Save to save and exit the screen.

#### **Edit an External ID**

- 1. From the **Configure Medication Interface Filter**, in the External IDs portion of the screen, highlight the entry you wish to edit.
- 2. Click Edit.

Dosage F		
Include		Description
Yes Yes	INFSYR INH AMP	INFSYR INH AMP
Add	d Edit	Delete
-		
Include		ID
External I Include Yes Yes		ID
Include Yes	3153	ID

3. Make the changes to External ID or Include in the Edit External ID pop-up.

Edit External ID				
External ID: 2874				
Include: 💿 Yes 💿 No				
Save Cancel Help				

4. Click **Save** to save changes and exit the screen.

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#### **Delete an External ID**

- 1. From the **Configure Medication Interface Filter**, in the External IDs portion of the screen, highlight the entry you wish to delete.
- 2. Click Delete.

		n Interface Filter
Dosage Fo	Code INFSYR	Description
Yes	INH AMP	INH AMP
<u>A</u> dd		Dejete
Yes Yes	3153 2874	
Add		Save Cancel Help

The selected External ID is deleted.

- 3. You can delete other External IDs if you so wish.
- 4. Click Save when finished.

# **Additional Technical Information**

## Formulary Maintenance Transaction (MFN)

This message is sent by the clinical pharmacy system to Hospira when a medication is added, updated or deleted from the pharmacy formulary.

#### **Message Structure**

MSH...MFI...MFE...ZFM

	MSH - Message Header							
#	Segment MSH HL7 Description	Mapping	R/O	Max length				
	MSH	MSH	R	3				
1	Field Separator		R	1				
2	Encoding characters	^~\&	R	4				
3	Sending Application	Host application	R	15				
	Field 4 not used							
5	Receiving application	HOSPIRARX	R	15				
	Field 6 not used							
7	Date/Time of message	EFA/EFD timestamp	0	26				
	Field 8 not used							
9	Message type	MFN	R	7				
	Field 10 not used							
11	Processing ID	Р	R	1				
12	Version ID	2.3	R	8				
13	Sequence number	Sequence number	0	15				

	MFI - Master File Identification Segment						
#	# Segment MFI Mapping R/O Max HL7 Description Mapping						
	MFI	MFI	R	3			
1	Master File Identifier	Site Specific	R	12			

MFE - Master File Entry Segment				
#	Segment MFIE HL7 Description	Mapping	R/O	Max length
	MFE	MFE	R	3
1	Record level event code	MAD-Formulary add/update	R	12
		MDL- Formulary delete		
2	Active Indicator	A – Active	R	1
		I – Inactive		
3	Site Indicator	Bit string	R	10

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ZFM - Formulary Maintenance Segment				
#	Segment ZFM HL7 Description	Mapping	R/O	Max length
	ZFM	ZFM	R	3
1	Formulary code	A,C or D (add, change, or delete)	R	1
2	Medication ID	CDM Number	R	15
3	Generic name	Generic name of medication	R	30
4	Medication class	Medication class (DEA)	R	1
5	Alternate Med ID	RX Drug Code #	R	15
6	Not Used	Not used	R/O	15
7	Brand Name	Medication Brand Name	0	30
8	Dosage Form	ex. tablet, capsule	R	10
9	Strength	Numeric strength of item	0	12
10	Strength units	ex. mg, G, mcg	0	10
11	Volume	Numeric volume of item	0	8
12	Volume units	ex. ml., L	0	5
13	Alternate med ID2	NDC #	0	15
14	Therapeutic class	Therapeutic class Description	0	50
15	Not Used	Not Used	0	8
16	GCN Sequence Number	GCN Sequence Number	0	8
17	Manufacturer	Manufacturer	0	15
18	Not Used	Not Used	0	15
19	Order from supplier	Numeric value of order	0	15
20	Units of order from supplier	ex. ml., L	0	1
21	Package form from supplier	ex. tablet, capsule	0	10

#### Sample Message

HL7 Formulary Maintenance Transaction message framed with an SOB (011) and EOB (028), <CR> (TCP/IP protocol)

<SOB>

MSH|^~\&|SMS| |HSPRX| |200703130854| |MFN| |P|2.3|<CR> MFI|PDM<CR> MFE|MAD|A|0001<CR> ZFM|A|11223344|CIMETIDINE|0|2211||TAGAMET|TAB|300|MG|1|TAB|12345-6789-01|56:40^INSULINS||30100|SLK||3|MG|TAB<CR>

<EOB> <CR>

Status of Most Recent Record in Database*	Incoming Message "FormularyCode Code"		Secondary "Significant Field" Evaluation Result	Message Action
None or obsolete	A	Not needed	Not needed	
None or obsolete	С	Not needed	Not needed	Pending addition
None or obsolete	D	Not needed	Not needed	Rejected
Pending addition	A	Identical	Identical	Rejected
Pending addition	С	Identical	Identical	Rejected
Pending addition	D	Identical	Identical	Pending deletion
Pending change	A	Identical	Identical	Rejected
Pending change	С	Identical	Identical	Rejected
Pending change	D	Identical	Identical	Pending deletion
Pending delete	A	Identical	Identical	Pending change
Pending delete	С	Identical	Identical	Rejected
Pending delete	D	Identical	Identical Different	Rejected
Pending addition	A	Identical	Different	Update most recent record
Pending addition	С	Identical	Different	Update most recent record
Pending addition	D	Identical	Different	Update most recent record
Pending change	A	Identical	Different	Update most recent record
Pending change	С	Identical	Different	Update most recent record
Pending change	D A	Identical Identical	Different Different	Update most recent record
Pending delete				Update most recent record
Pending delete	С	Identical	Different	Update most recent record
Pending delete Pending addition	D	Identical Different	Different	Update most recent record
	A		Not needed	Pending change
Pending addition Pending addition	C	Different Different	Not needed Not needed	Pending change
Pending change	A	Different	Not needed	Pending deletion Pending change
Pending change	C A	Different	Not needed	Pending change
Pending change	D	Different	Not needed	Pending deletion
Pending delete	A	Different	Not needed	Pending change
Pending delete	Č	Different	Not needed	Pending change
Pending delete	D	Different	Not needed	Pending deletion
Active	A	Identical	Identical	Rejected
Active	C	Identical	Identical	Rejected
Active	D	Identical	Identical	Pending deletion
Active	A	Identical	Different	Update most recent record
Active	C	Identical	Different	Update most recent record
Active	D	Identical	Different	Pending deletion
Active	A	Different	Not needed	Pending change
Active	C	Different	Not needed	Pending change
Active	D	Different	Not needed	Pending deletion
ecords explicitly rejecte		edNet Meds user ar	e not evaluated	int, Strength Units, Volume
elds: condary Significant	Amount, Volume	e Units, Dosage Forr	n Code, Dosage For	m Description
elds:		tic Class Code, The	apeutic Class Descri	ption
er Action	Result			
		ord and all shildress	ara dalatad	
ject a pending addition	i i ne rejectea rec	ord and all children	are deleted	

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#### Notes:

# Glossary

Active Drug Library	Worksheet that has been finalized and is available to send to infusers
Archived Drug Library	Previously Active library
ВСМА	Acronym for Bar Code Medication Administration
Callback Notification	Setting that configures the infuser to emit an audible tone
	For Plum A+, callback notification can occur after a loading dose completes and between doses in a multistep therapy
	For SapphirePlus, callback notification can occur after a period of inactivity
CCA (Clinical Care Area)	Patient group in which the infusion therapy parameters are the same
(onnical Gale Alea)	A CCA may be the same as a physical nursing unit or may encompass a patient population or a clinical use. For example, the following may be defined as CCAs: ICU, Blood Products, Med/Surg, Orthopedics, Endoscopy, etc.
CE	Acronym for Connectivity Engine that allows the infuser to communicate with a wired or wireless network
Clinical Use	The clinical use attributed to a medication entry
Concurrent Delivery (Plum A+)	Setting for Line B mode
Container Volume	Volume of the bag, bottle, or vial used to define a medication entry
Continue Rate	Delivery rate after the VTBI amount has been infused
CSV file	Comma separated value file format used by the software for importing and exporting certain files
Custom Syringe or Vial	Bar coded sterile empty vial that is custom-filled by a pharmacy
Default Occlusion Pressure	Pressure at which the infuser will sound the distal occlusion alarm
Delayed Start	Programming option that allows the infusion to be started at a later time
	Similar to standby
Deliver Together	Setting for the Plum A+ that defines the type of delivery mode, piggyback or concurrent
Diluent Amount	Volume of fluid in which a medication is diluted
Distal Occlusion	Blockage between the infuser and the patient

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Dose Limit (LifeCare PCA)	User-programmable parameter specifying the maximum amount of drug that can be administered via LifeCare PCA dose and continuous delivery in a programmable rolling time period consisting of discrete accumulation periods of six minutes
	<b>Note:</b> When the default drug library is used, a 1-hour or 4-hour Dose Limit period may be selected in Biomed mode. When a user-defined drug library is used, a 1-hour, 4-hour, 6-hour, or 12-hour Dose Limit period may be specified for each medication.
Drug Library	Collection of medication entries and infuser settings that, when used with compatible infusers, may reduce the frequency of human errors by restricting the ways in which medications can be administered
Drug Library Worksheet	Drug library that can be edited but cannot be sent to infusers until it is finalized
Edit	The user responded to an alert by changing the value entered
Enable Delay/Standby	Infuser setting for Plum A+ that allows the infuser to be programmed for a waiting period before a therapy begins
External ID	An identifier for a Medication. Each Medication in the Medication List must have a unique External ID
Finalized Drug Library	Drug library that has been approved for use on infusers and can no longer be changed
Finalization	The act of approving a Worksheet and making it the Active library
Full Rule Set	Type of rule set that allows medication entries to be configured with a medication name, complete or partial concentration, specific dosing unit, and corresponding dose rate limits
Hard Limit	Upper and/or lower limits for the selected medication and selected CCA that cannot be overridden (Plum A+ and LifeCare PCA) Hard limits are not required to be defined for a medication
	Hard limits may vary for different CCAs
Hard Limit Alert	An alert presented to the user when a hard limit is exceeded. The user's response depends on the infuser: for Plum A+ and LifeCare PCA, the user must edit the value entered so that it does not exceed the hard limit
HIS	Acronym for Hospital Information System
Infusion	Single medication and concentration infused on a patient
	An infusion may be associated with one or more programs
KVO (Keep Vein Open)	Very low delivery rate that may reduce the potential for clot formation at the catheter tip
Label Only Rule Set (Plum A+)	Type of rule set that allows medication entries to be configured with a medication name, complete or partial concentration, and specific dosing unit
	Dose rate limits cannot be assigned to a "Label Only" medication entry
	The "No Rule Set" icon is displayed on the infuser when this type of rule set is used

LDAP	Acronym for Lightweight Directory Access Protocol, a network protocol that enables applications to use a company's existing network directory listing for user names and passwords, thus allowing the company's network administrators to manage login access to multiple applications from one central source. For example, users can use their company's network login information with the same credentials (user name and password) to access Hospira MedNet Software
LifeCare PCA Lockout Interval	Programmed time interval specifying the minimum time that must pass after a loading dose or PCA dose (bolus) is administered; this time interval specifies when the next PCA dose can begin. Requests made during the lockout interval are denied.
LifeCare PCA Vial	Vial compatible with the infuser that is either prefilled with drug by Hospira (standard vial) or filled by the hospital pharmacy (custom vial)
Limited Rule Set (Plum A+)	Type of rule set that allows medication entries to be configured with a medication name, optional diluent volume, and rate limits
	Dosing units for a Limited rule set includes mL/hour
Loading Dose	Optional dose which can be administered at any time by the clinician during the programmed therapy (LifeCare PCA only)
Master Drug Formulary	Comprehensive list of medications and rule sets defined for use in a drug library
Maximum Dose Rate	Highest rate at which the infuser can be programmed to run
Medication Entry	Rule set defined for a unique combination of a medication and concentration
Medication List	List of medications used by the hospital. The Medication List is used to define drug libraries
Multistep	Programming option that allows delivery in steps or phases with different parameters for each step
Occlusion	Blockage in the tubing set that prevents the infuser from infusing fluid into the patient. Possible causes of occlusions are kinked or plugged tubing
Override	The user responded to an alert by acknowledging it and accepting the value entered
Piggyback Mode (Plum A+)	Programming option that allows the delivery of a secondary container while delivery from the primary is suspended. When the secondary container has completed delivery of the volume to be infused, the primary resumes delivery
Prime	Clear out or purge air from the tubing. Same as Purge

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Program	Infuser settings made by the clinician which can result in an alert. These include the settings to start a new infusion and changes to the dose or rate:
	<ul> <li>For the Plum A+, changing a bag, bottle, or syringe is not</li> </ul>
	considered a new program if no other setting was changed
	<ul> <li>For the LifeCare PCA, changing a vial is not considered a new program if no other setting was changed</li> </ul>
	One or more programs may be associated with an infusion
	Differences between infusers:
	<ul> <li>Plum A+ - Loading Dose and Multistep are each considered to be a single program</li> </ul>
	<ul> <li>LifeCare PCA - a program includes the settings for Loading Dose, PCA, Continuous, and Dose Limit</li> </ul>
Protocols (LifeCare PCA)	Frequently used therapy settings which can be recalled making it unnecessary for the clinician to program the same settings each time. Protocols are determined by the health care facility
Proximal Occlusion	Blockage between the infuser and the fluid container
Purge	Clear out or purge air from the tubing. Same as Prime
Report Options	Configurations entered by the user to define the desired report output. Examples include Time period, CCA, Medication, etc.
Rule Set	Constraints that are assigned to medication entries. The type of rule for the medication in the drug library
	<ul> <li>For LifeCare PCA, Rule Sets include PCA, Continuous, Loading, or Dose Limit</li> </ul>
	Rule sets can include both soft and hard limits. The Plum A+ has a single rule set
Service Line	A designation used in reports to aggregate data across multiple CCAs or facilities. Each CCA is mapped to a Service Line. For example, a service line called Med/Surg may be used to examine data from the CCAs Four West, Five North, and Five East in a single hospital
Soft Limit	Upper and/or lower dose limits for the selected medication and selected CCA that can be overridden. Soft limits for a particular medication may vary across CCAs
Soft Limit Alert	An alert presented to the user when a soft limit is exceeded. The user may choose to edit or override the value entered in response to the alert
Standby	Programming option that allows the infusion to be started at a later time. Similar to delayed start
Standard Syringe (LifeCare PCA)	Prefilled, bar-coded vial. Standard syringes are also known as prefilled medication vials
Variance	Variance is a calculated value intended to represent how far away the user's initial programmed value was compared to the defined limit
	Variance is defined as <i>(Initial Dose - Limit Violated) / Limit Violated</i> , expressed as a percentage, shown as a negative number for Lower Limit violations and a positive number for Upper Limit violations
VTBI	Acronym for Volume To Be Infused

260 Hospira MedNet Meds Software User Guide Note: For a list of Hospira MedNet compatible devices approved by country, refer to the Hospira MedNet Device Compatibility Matrix available through your Hospira Support Center. **Note:** SapphirePlus<sup>™</sup> is a trademark of Q Core Medical Ltd.

Notes: