

# The Hospira MedNet® System

## *State-of-the-Art Technology to Help Enhance Patient Safety*

Provided by  
Hospira Medication  
Management Systems

Hospira is committed to being a consultative partner, providing innovative, meaningful solutions that will improve safety, productivity, efficiency and accuracy of documentation. Hospira is a dedicated long-term player with a full pipeline of products that will continue to advance medication management and patient safety.

The Hospira MedNet® System provides state-of-the-art technology to help enhance patient safety by creating a more efficient IV-medication delivery process. Its advanced wireless networking and enhanced programming capabilities provide real-time, point-of-care access to hospital-defined best practices for IV-medication administration.

The Hospira MedNet® System employs advanced data-transfer technology to benchmark, monitor, evaluate and improve the IV-medication process. It provides caregivers with a single safety software platform across the Plum A+® and LifeCare PCA® Infusion Systems, providing best practice guidance for general purpose and PCA IV-infusion therapies across multiple Clinical Care Areas (CCA).

Hospira's focus on IV-medication management has resulted in products designed to help enhance patient safety, reduce IV-infusion errors and increase caregiver productivity. Hospira MedNet® Software can provide healthcare facilities with the framework for a customizable, hospital-specific drug library. The Plum A+® with Hospira MedNet® Software provides hospital-defined best practice guidance and safety rule sets. It also supports hospital best drug delivery and standardization practices, which can decrease the number of drug concentrations available in hospitals across multiple therapeutic areas.

- Each hospital can define up to **18** CCAs—e.g., ICU, ER and OR—for its drug library application.

- A hospital-defined team creates the specific drug libraries for each CCA. Up to **150** specific drug entries (149 drugs + No Drug Selected) per CCA are available within the drug reference library for a **total of 2,700** drugs with corresponding dose guidelines (soft and/or hard limits for each drug per Clinical Care Area).
- Hospital-specific "**TALLman**" Lettering may be assigned to the drug entries within the drug library. TALLman Lettering uses uppercase letters in combination with lowercase ones to help clinicians differentiate among sound-alike or look-alike drug names. An example may be "DOPamine."
- Hospira MedNet® Software enables hospital pharmacies to set **both soft and/or hard dose limits** that can be defined for each medication in the drug library. This provides multiple rule-set options for each drug, programming flexibility for infusions, and greater access to the hospital's best practices. Soft limits (current industry standard) are dose limits recommended by a hospital's best practice guidelines, which a clinician may manually override for some clinical conditions. Hard limits are dose limits set by the hospital, which clinicians cannot manually override.
- Hard and soft (upper and lower) limits apply to drugs being delivered from all programmable infusion channels; therefore, rule sets for single drug and multiple sequenced and concurrent drug infusions are provided. This further helps reduce the potential for medication errors with all infusions, as rule sets are applicable to both **primary** and **secondary** infusions.

- A **configurable listing for highest-priority drugs exists.** Hence the drug library can be programmed in alphabetical or highest-ranking order of the most frequently administered drugs and/or highest-priority drugs, in accordance with the healthcare facility's criteria. This provides each clinical area with the prioritization of the highest-use drugs on the first drug screen, which provides quick and easy programming access to support clinicians at the point of care.
- Additionally, a comprehensive **Final Confirmation Screen**, which serves as the final programming confirmation check prior to starting the infusion, is available. It is a vital step in the medication-management process to help ensure patient safety. The clinician receives this final single screen review (PRIOR TO INITIATING THERAPY) and must confirm the programming parameters prior to starting the infusion.

As the Plum A+® Infusion System with Hospira MedNet® Software supports a hospital's best drug delivery practices, it also facilitates clinical workflow through display symbols that alert users to the following:

- Soft Limit Override Symbols – Programmed soft upper or lower limits have been overridden.
- Cautionary Symbol – Displayed when pump is being operated without rule sets.

The PlumSet® Administration Set is the foundation of the Plum A+® with Hospira MedNet® Software. **The PlumSet® Administration Set provides set-based, free-flow protection.** The PlumSet® in combination with the Plum A+® infusion pump employ integral positive valving to deliver clinicians' programmed selections (primary/secondary infusions). This eliminates the need for backcheck valves as infusions are not head-height dependent. When primary and secondary infusions are programmed for specific applications, the positive valving application provides for automated delivery of primary and/or secondary medications, including the simultaneous delivery of two infusions at independent flow rates. This helps assure the on-time delivery of medications and assists the clinicians in meeting the challenges and complex needs of critically ill patients. This also helps minimize nursing intervention as manual adjustment for a secondary infusion and/or manipulation of slide clamps is unnecessary.

In addition to the Plum A+® Infusion System with Hospira MedNet® Software (two lines in and one line out), Hospira offers a complimentary device: the Plum A+®3 with Hospira MedNet® Software. It also utilizes PlumSet® Administration Sets. The Plum A+®3 pump allows clinicians to manage an industry-leading six infusion line medication-management system. The wireless-enabled system assists healthcare professionals to better manage the complex medication dosing regimens typically seen in emergency rooms (ERs), intensive care units (ICUs) and oncology centers. Patients in these settings are

often critically ill and may require multiple drug infusions delivered at precise doses and on varying schedules. The Plum A+®3 Infusion System with Hospira MedNet® Software enables clinicians to deliver infusions either simultaneously or in specific tiered sequences, depending on each patient's needs.

The Plum A+®3 Infusion System with Hospira MedNet® Software also provides the following:

- Safety features with hospital specific hard and soft dosing limits on **six infusion lines within one unit.**
- Supports caregivers' confidence in their abilities to initiate and monitor **multiple, complex drug deliveries** in an efficient manner.
- **Helps reduce the time** required to assemble the appropriate technology at the patient's bedside.
- **Facilitates operational efficiency** by allowing clinicians to program several dosing regimens in a single unit.
- **Creates a distributed approach**, which means that the Hospira Plum A+®3 with Hospira MedNet® Software Infusion Systems are individual, stand-alone devices that function independently of each other. This "distributed approach" helps meet clinical workflow demands and patient safety by providing the following:
  - Eliminating the potential for a "single point of failure" where several devices lose power simultaneously when the main pump CPU loses power.
- **Benefits asset management** and productivity by using one unit instead of several for multiple infusions.

This comprehensive system is designed to meet the evolving needs of the healthcare industry by assisting in managing therapies along the continuum of care. It further demonstrates our commitment to patient safety through the reduction of medication errors.

Performance Enhancement Reports are a key element to the value of the Hospira MedNet® System. Hospira MedNet® Software captures IV-infusion data to provide a complete view of IV-medication delivery to drive quality improvement initiatives and support hospital best practices within an institution.

These Performance Enhancement reports provide information that supports hospital best practices; these reports include the following:

- Infusion Status
- Infusion Summary
- Medications Infused
- Medications Infused by CCA
- Medication Infused by Med
- Medications Infused by Service Line
- Next IV Due
- Asset Tracker
- Asset Utilization
- Event/Alarm Log
- Enhanced Programming  
(Hospira MedNet®N5 System Package Only)
- Patient Medication History  
(Hospira MedNet®N5 System Package Only)

The Hospira MedNet® System is a powerful combination of advanced medication-management software and leading-edge networking technology that constitutes a broad safety and performance solution across the multiple Hospira infusion device platforms. The Hospira MedNet® System is designed to facilitate the development, dissemination and documentation of hospital-defined best-practices in real time at the point of care.

Hospira's **upgradeable and scaleable Hospira MedNet® System approach** supports customers along the various clinical and technology roadmaps within an institution. From the Hospira MedNet® L package (Plum A+® with Hospira MedNet® Software), to the MedNet® N package (Plum A+® with Hospira MedNet® Software wireless), to the Hospira MedNet® N5 package (to include networking with enhanced programming that adds interoperability with Bar Code Point-of-Care [BPOC] Systems), Hospira has a package to support individual hospital needs.

To support alignment with hospital technology advancements, Hospira has chosen an open architecture approach. Hospira and Cerner jointly announced the availability of point-of-care IV-medication management solutions designed to help prevent intravenous medication errors. The latest offering integrates the Hospira MedNet® System with the Cerner CareGuard™ system. Hospira's partnership with Cerner and others provides state-of-the-art solutions for hospitals looking to implement BPOC systems to enhance the delivery of IV medications. This reinforces the value of integrating Hospira's MedNet® System with these systems to aid the following tasks:

- Reduce medication errors.
- Enhance patient safety.
- Assist with performance enhancement efforts.
- Improve clinical workflow.

Hospira also recently partnered with InnerWireless to assist hospitals with providing secure and reliable wireless transmission of data critical to enhancing patient safety. Hospira is the first infusion-device supplier to step to the forefront of greater connectivity, allowing hospitals to take advantage of their clinical information system (CIS) through interoperability of Hospira's infusion devices with InnerWireless' medical-grade wireless utility.

Healthcare technology is only as effective and efficient as the support behind it, and Hospira provides that support in many ways. Hospira has a sales force that is highly trained and certified in the use of Hospira products. Sales representatives are assigned territories throughout the United States.

The Infusion Therapy sales team promotes and services our complete line of medication delivery systems. The Sales Team includes Area Sales Directors, District Managers, Major Account Executives, Information Systems Executives, Account Managers, Medication Management Specialists and Clinical Nurses. This team focuses on servicing the needs of our Plum A+® customers, supporting them during and after implementation.

Hospira prides itself on providing the highest level of customer service, and recognizes the importance of a collaborative and consultative relationship between representatives and their valued customers. To reach this level of customer service, representatives must understand the customers' goals and clinical practices. To demonstrate this commitment to customer service, Hospira offers value-added services such as an IV Assessment. This assessment process offers customers an opportunity to take an objective look at their own products and clinical practices within their institutions.

During an IV Assessment, Hospira's qualified Clinical Nurses, Account Managers and Medication Management Specialists will work with clinical leaders in each area of a facility to collect information regarding clinical practices, protocols and products used. The information gathered is analyzed and formatted in either a verbal, written and/or graphical presentation. The IV Assessment is then presented to the facility. Frequently, presentations lead to increased standardization, improved product utilization and greater cost savings to customers.

In addition to the sales teams, the Hospira Client Services Team partners with our customers to support the entire device-implementation process. This team consists of Project Managers, Medication Management Systems Pharmacy Consultants and IT Implementers. The Project Manager offers centralized project management and develops an implementation operating model approach tailored to customer specific needs.

The Medication Management Systems Pharmacy Consultant Team consists of highly experienced pharmacists. Their primary role is to bring clinical knowledge and practice experience together to assist with the application of the Hospira MedNet® RxRules Software. The expertise of the consultant, along with his or her understanding of the administration of intravenous medications, ensures that Hospira customers optimize their use of the Hospira MedNet® Software. The IT Implementers actively participate in the implementation process and their primary role is to provide IT expertise to the conversion process.

A pharmacy consulting engagement includes on-site visits, conference calls, e-mail follow-ups and facilitation to develop pharmacy and clinical staff support to ensure the maximum use of Hospira MedNet® Software. This process is typically six to eight weeks, but can be tailored to meet the customer's needs and priorities. The Pharmacy Consultants also assist in analyzing data from the system and review the first set of reports with the customer to ensure understanding. The Hospira Pharmacy Consultant will aid in the development of an ongoing improvement process within the institution to utilize the collected data in establishing best practice guidelines, and to track metrics that demonstrate the value of the Hospira MedNet® Software.

In summary, the mission of Hospira is "Advancing Wellness™ through its products and people." We are confident that our people, products and overall vision of the future with the Hospira MedNet® System will meet your medication management and patient-safety requirements today and into the future to provide the framework for best practice applications to support caregiver confidence and to optimize patient care.

For more information on Advancing Wellness, contact your Hospira representative at **1-877-946-7747** or visit [www.Hospira.com](http://www.Hospira.com)

