



Alaris® System

Medication safety system
focused at the point of care



CardinalHealth

A safety platform you can build on™

Different care areas have different needs. That's why the Alaris® System* gives you a platform you can customize and build on. The Alaris® System integrates drug infusion with patient monitoring and clinical best practice guidelines into a single, modular platform. With multiple configuration options, you can add or remove modules as you need them, keeping the number of devices at the bedside to a minimum while managing the unique needs of each patient.

While the Alaris® System offers maximum flexibility, it also incorporates a **common user interface and alert system across multiple bedside devices**, enabling you to standardize your infusion and monitoring systems across all areas of the hospital. We offer you a systems approach for all your care areas, rather than simply applying a new technology to "pockets" of your facility. The modularity of this medication safety system also assists in effective asset utilization throughout the hospital.

The Alaris® System works with you to standardize best practices for medication safety – from individual care areas to each specific patient.

"The availability of smart pumps is an important factor in nursing recruitment and is one of the reasons nurses stay with us."

Victoria Rich, PhD, Chief Nursing Officer
Hospital of the University of Pennsylvania

*Alaris® System formerly known as the Medley™ System.

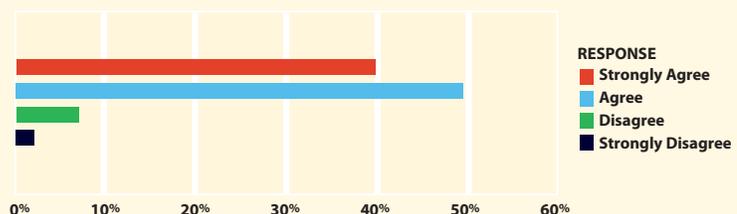


Nursing Recruitment and Retention: One Performance Partner's Experience

Working with one of our performance partners, The Nebraska Medical Center, we helped them measure the results of installing the Alaris® System with the Guardrails® Suite. We discovered that Nebraska's ROI (Return on Investment) was less than 24 months. On average, our hospital partners experience a 24-month ROI. Nebraska was also able to show a measurable increase in nursing satisfaction based upon an internal survey of the nursing population – more than 90% of nurses indicated that they would prefer to use the Alaris® System with the Guardrails® Suite of safety software instead of other infusion devices currently available in this institution.

Nebraska was also able to show a measurable increase in nursing satisfaction levels, here is what the clinicians said:

"I prefer to use the Alaris® System with the Guardrails® Suite of safety software instead of other infusion devices currently available in this institution."



Build your Alaris® System the way you want it



Anesthesia/OR

When you're in the operating room, the fewer distractions, the better. That's why our Alaris® System offers an exclusive Anesthesia Mode for maximum flexibility in programming infusions with minimum distractions:

- Key-press audio "clicks" turned off
- Additional OR drugs and OR-only limits
- Anesthesia Mode becomes disabled when the device is disconnected from AC power and reverts back to the original profile for additional safety
- Indefinite channel pause with no call-back
- All limits for the safety software are set to "soft"



NICU/PICU

When you're dealing with infusions for children and infants, accuracy and safety are essential. The Alaris® Syringe Module is specially designed for these most-demanding environments.

- Exceptional rate accuracy (+/- 2%)
- Flow rates from 0.01 mL/hr to 999 mL/hr
- Compatible with a wide range of syringes and brands
- Unique and unmatched pressure-monitoring capabilities
- Intuitive syringe-loading process

Pain management

Dealing with high-risk opioid drugs demands reliable technology to help prevent programming errors. The Alaris® PCA Module stands up to that challenge with a customizable drug library with dose limits specific to each drug and concentrations to help ensure the right drug, the right programming—and the "right response."

- Built-in safety check for every PCA delivery, including pre-filled and pharmacy filled drugs
- Customizable drug library for all care areas
- Ability to combine PCA, large-volume pump and patient monitoring into one compact platform with a single user interface
- Combined PCA-dosing history and SpO₂ or EtCO₂* values on a single platform
- Industry leading Nellcor, Masimo and Oridion monitoring technologies available
- First-of-its-kind CQI results for pain management process improvement

"Kids can be particularly sensitive to drugs, especially those given by IV. We invested in this 'smart' system because it assists in preventing inappropriate medication dosing, protects patient safety and is helping us improve our safety strategies."

*Chris Abe, Director of Health and Safety at
Children's Hospital and Health Center in San Diego*

* Note: This product has not yet been released for commercial sale. Cardinal Health, Alaris® Products may not make this product available for commercial sale.

“If you only have \$1 million, what do you do? Implement technology that would stop some of the most serious errors. Implementing the Alaris® System hospital-wide is the quickest thing we’ve ever done to improve patient safety. Usually it takes five years, minimum, to make change in a big organization. Nurses are actually using this technology, and the data show that over time they’re using it more. It’s helping to avert high-risk errors and allowing us to monitor and improve best practices.”

Judy Hayes, Director of Professional Practice, Brigham and Women’s



Med surg/general ward

In all hospital areas, nurses deal with multiple patients and a wide variety of illnesses. These professionals are faced with numerous tasks using many different devices. The med/surg unit can be a complex environment.

The Alaris® System simplifies infusion administration with a single platform and nurse-friendly interface.

- Modular platform standardizes devices throughout the hospital
- Quicker and easier training
- Earlier identification of programming errors, before a medication error can occur
- Smart infusion technology for a care area often overlooked when it comes to cutting-edge technology

Speed to Impact

	Prescribing	Transcribing	Dispensing and distributing		Administering and monitoring	
			Cabinets	Robots	Bar Code System	“Smart” Alaris® System
Technology solutions	CPOE	P.I.S.	Cabinets	Robots	Bar Code System	“Smart” Alaris® System
Cost of acquisition™	\$7.9M	\$0.5-1M	\$0.5-3M	\$1-3M	\$0.5-2M	\$1M
Time to implement	18-36 Months	6-12 Months	4-6 Months	6-12 Months	6+ Months	90 Days

Source: Health Care Advisory Board, “Reducing Adverse Drug Events”, 2000 Costs, Benefits, and Challenges of CPOE, First Consulting Group, Jan 2003



“We encourage our patients to get moving. Now they are not ‘chained’ to a massive amount of equipment. With the Alaris® System, it is much easier for patients to go outside to our campus, which is designed to encourage ambulation.”

Bob Cuthbertson, Director Materiel Services, City of Hope National Medical Center

Oncology

Nurses working in an Oncology Unit care for patients with a variety of diagnoses. These patients receive complex therapies where correct delivery of the infusion is critical. The Alaris® System's Oncology Profile offers you the flexibility to custom-configure the system to fit the needs of each patient for the most effective drug delivery.

- Ability to schedule multiple-dose therapies based on the optimum times for each particular patient
- Configurable with a variety of disposable set options – including DEHP-free sets, secondary sets and manifold sets
- Easy to ambulate

Critical care

In the critical care unit, patients might be on a dozen different IV lines, which are often connected to numerous different devices. On top of that, your clinicians have to deal with huge drug libraries and high rates of dosing, which makes keeping up with new drugs and their concentrations a tremendous challenge. The modular platform of our Alaris® System simplifies clutter at the bedside.

- Ability to add or subtract modules as needed
- Single interface for simplified training
- Vertical alignment of channel lines for easy view
- Single battery and power cord for up to 4 channels
- Unmatched flexibility in customizing drug limits, with up to 1,000 drug and care applications

Customizable smart technology for the standardization of best practices

Even as hospitals report record levels of patient growth, a critical shortage of trained professionals presents a major concern. Our smart infusion technology enables your clinicians to work smarter, not harder, to enhance medication safety in your hospital.

The Guardrails® Suite of safety software incorporates your facility's dosing units and concentrations, dose ranges and operating parameters for each patient area into the smart infusion device at the bedside. No other system has the ability to customize up to 1,000 drug configurations. The safety software utilizes an extensive and dynamic library of drug dosing information, customized for your facility's needs within specific care areas.

In addition, the Alaris® System is the only smart infusion system that tracks data for actionable continuous quality improvement (CQI) measurement. This allows the hospital to track "near miss" programming errors that have been averted and could have resulted in patient harm, by recording the steps leading to an alert and programming changes made as a result of the alert. CQI Software demonstrates clearly how many, and what type of, medication errors you've prevented—and helps you identify opportunities for process improvements.

Guardrails®

Look for products with this symbol that include the Guardrails® Suite of safety software.



"Our nurses really embraced the change to the Alaris® System. This allowed us to introduce culture change in incremental steps and to achieve the greatest impact on improving medication errors in the shortest amount of time."

Sharon K. Steingass,
RN, MSN, Professional Practice
Leader-Hematology and Hematopoietic Cell Transplant (HCT),
City of Hope National Medical Center

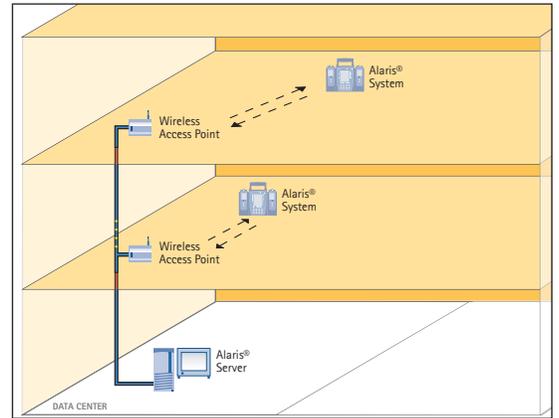
Networked for safety

As hospitals adopt wireless networks to speed up the transmission of information throughout their facilities, the Alaris® Network Products work to support your needs.

Our latest advancement, the Alaris® Network and Alaris® Systems Manager, eliminate the manual transfer of data to and from your Alaris® System. The Alaris® Network and Alaris® Systems Manager enable you to transmit data automatically, using a central server and operating system kernel.

The Alaris® Network and Alaris® Systems Manager expedite your uploads of drug data sets into each Alaris® System so that you have the latest, and safest, information at every bedside. It expedites your downloads of CQI data into a centralized server so you can analyze the most up-to-date events in your hospital. This can be a tremendous help in meeting new Joint Commission regulations, which require hospitals to conduct proactive risk assessments of their medication-use processes.

Open architectural platform supports future expansion needs.



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For more information, contact your Cardinal Health, Alaris® Products Sales Consultant at 1.800.482.4822, in Canada at 1.800.387.8309 or visit our website at www.cardinalhealth.com/alaris

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