

The right protection.  
Every patient.  
Every infusion.  
Every time.

Guardrails® Suite MX software

Medication errors in the United States cost \$3.5 billion to treat annually and affect 1.5 million patients.<sup>1</sup> IV medication errors represent 61% of the most serious and costly errors. Selecting safety software that protects you and your patients at every infusion is critical to help prevent these adverse outcomes. Not all safety software offers the ultimate level of protection you need.

The Alaris® System with Guardrails® Suite MX software **does**.



Alaris®



***Alaris CQI aggregate data shows that at least one harmful infusion error is averted every 1.8 days with Guardrails Suite MX software.<sup>2</sup>***

***Preventable adverse drug events (PADEs) increase LOS by 1.91 days<sup>3,4</sup> and cost \$8,750<sup>5</sup> per ADE.***

### **The right protection for every infusion**

Guardrails Suite MX software from CareFusion is the most comprehensive infusion safety software available today. Only the Alaris System with Guardrails Suite MX software can help you protect every patient and every infusion, every time.

With one standardized infusion platform across all IV modalities—Syringe, PCA and Pump—the Alaris System helps reduce the occurrence of harmful IV medication errors, while also providing you with meaningful data you can use to improve the overall quality of patient care.

### **The only software protecting total dose and duration**

Any safety software today can protect against infusion errors for continuous infusions, but only Guardrails Suite MX software provides the right protection to safeguard continuous and intermittent infusions.

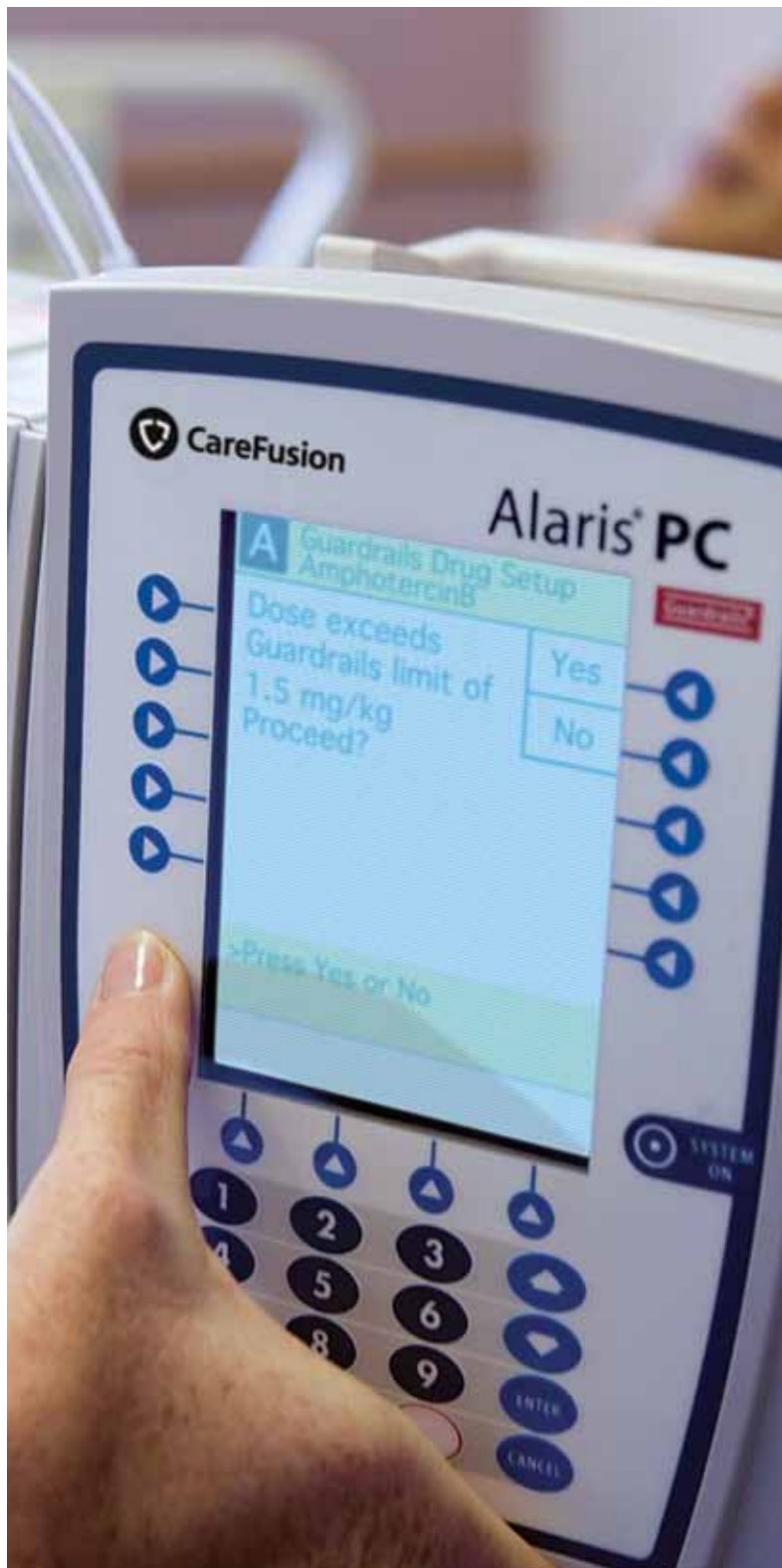
For intermittent infusions like antibiotics or chemotherapy, Guardrails Suite MX software provides two limits: one on the amount of drug (total dose) and a second on the duration of the delivery, for both primary and secondary infusions. For these infusions, other dose error reduction software (DERS) only protects one: the rate of delivery.

### **Actionable data to drive process improvements**

The Guardrails CQI Reporter software allows hospitals to collect, interpret and respond to data collected during the drug delivery process. The data allows hospitals to track “near miss” or programming errors that have been averted and could have resulted in patient harm. The data is actionable and helps identify opportunities for process improvement. If the wrong total dose of medication is given, the outcome can be devastating. For example:

- At a New Jersey Teaching Hospital, a 10-month old received ten times the dose of cisplatin and died<sup>6</sup>
- A patient at Dana Farber Cancer Institute received four times the dose of cyclophosphamide and died<sup>7</sup>
- In July of 2007 two patients at Heartland Hospital were given five times the dose of amphotericin B, an antifungal medication, and died<sup>8</sup>

Guardrails Suite MX is the only software that could have potentially protected these patients—and their caregivers—against these errors.



## Customized to reinforce your best clinical practices

Guardrails Suite MX software offers the most complete medication safety solution with superior safety and customized features. It allows you to create comprehensive drug and fluid libraries.

- The only system offering **double check protection** for the medication total dose and duration of delivery
- The only system with **Anesthesia mode** to provide anesthesiologists with dosing and delivery options not available to clinicians on the units
- The only system offering **bolus dose drug identification and rate limits** to ensure safe delivery when administering medications at very high or very low rates
- **Therapies** create one drug entry with different dosing options and Guardrails limits—allowing clinicians to customize treatment based on a patient's clinical condition
- **Dedicated IV fluid library** allows facilities to configure rate limits for each IV fluid in a profile and determine if that fluid will allow secondary support
- **Clinical Advisories** can be hospital-customized to remind clinicians of best practices throughout IV therapy
- **PCA Pause Protocol** automatically pauses a PCA infusion if the patient falls below hospital-defined respiratory monitoring limits

*“Guardrails software provides another double-check to help make sure the patient gets the correct dose over the correct time frame.”*

Theresa Franco, Executive Director of the Cancer Care Service Line  
Nebraska Medical Center

#### References

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