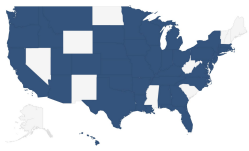




NATIONAL INFUSION  
COLLABORATIVE

*State of Infusion Report*  
**January 2025**

# National Infusion Collaborative Network



**40**  
States



**461**  
Sites



**87,788**  
Beds



**41.7%**  
Live with  
Interoperability

The National Infusion Collaborative programmed

**29,062,399 infusions**

July 1, 2024 through December 31, 2024

## Who We Are

The NIC, formed in partnership with Purdue University's REMEDI organization and Bainbridge Health, brings together Pharmacy, Nursing, Quality, and Safety leaders focused on infusion pump data analytics and safety practices.

## Mission

The goal of the National Infusion Collaborative is to leverage its unique network of practitioners and national dataset to drive unprecedented network benchmarking and knowledge-sharing.

## Data

Data is from a vendor agnostic data set from over 400 hospitals across the United States. Data is being shared on a semi-annual basis to provide insight into infusion pump metrics and alert trends. Data in this report is from July 1, 2024 through December 31, 2024.

# Network Benchmarking

July 1, 2024 through December 31, 2024

	<b>DERS* Compliance</b>	<b>Alert Rate</b>	<b>Override Rate</b>
<b>NIC Network</b>	88.2%	6.4%	67.5%
<b>Live with Interoperability</b>	88.6%	6.1%	72.2%
<b>Not live with Interoperability</b>	88.0%	6.6%	65.1%
<b>Adult Hospital Type</b>	88.8%	6.3%	68.1%
<b>Pediatric Hospital Type</b>	86.9%	6.8%	66.1%

\* DERS: Dose Error Reduction Software



Interoperability pump programming occurred in **54.7%** of all infusions within health systems live with smart pump interoperability. (Range 19.2 – 75%)

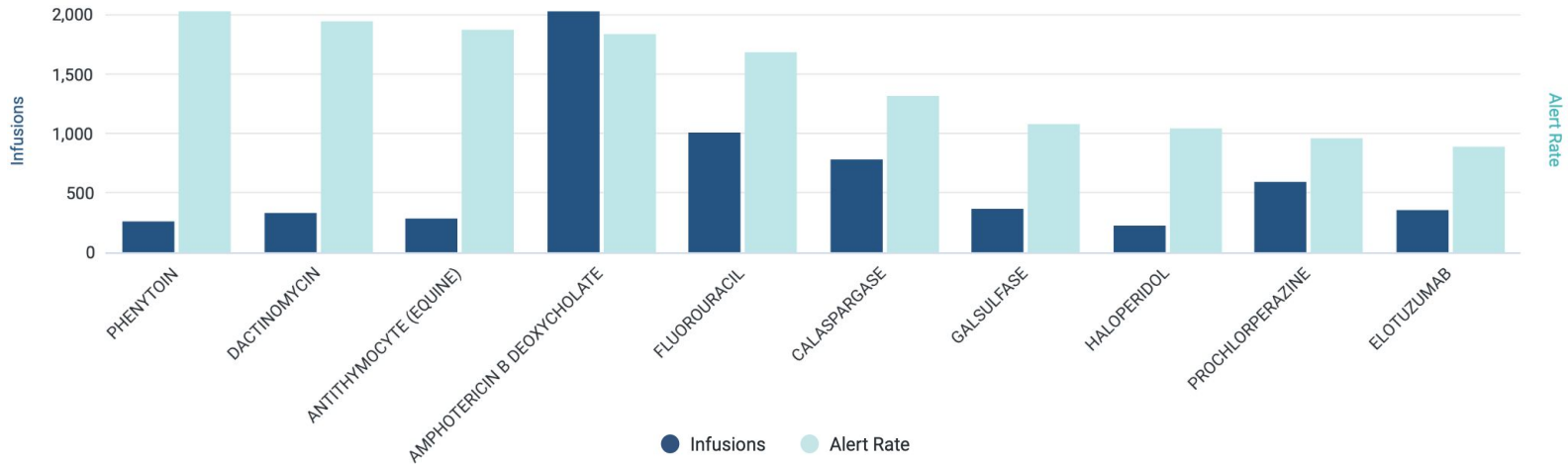
Health systems live with interoperability have on average **4.5 care profiles**. Those not live with interoperability have on average **7.3 care profiles**.



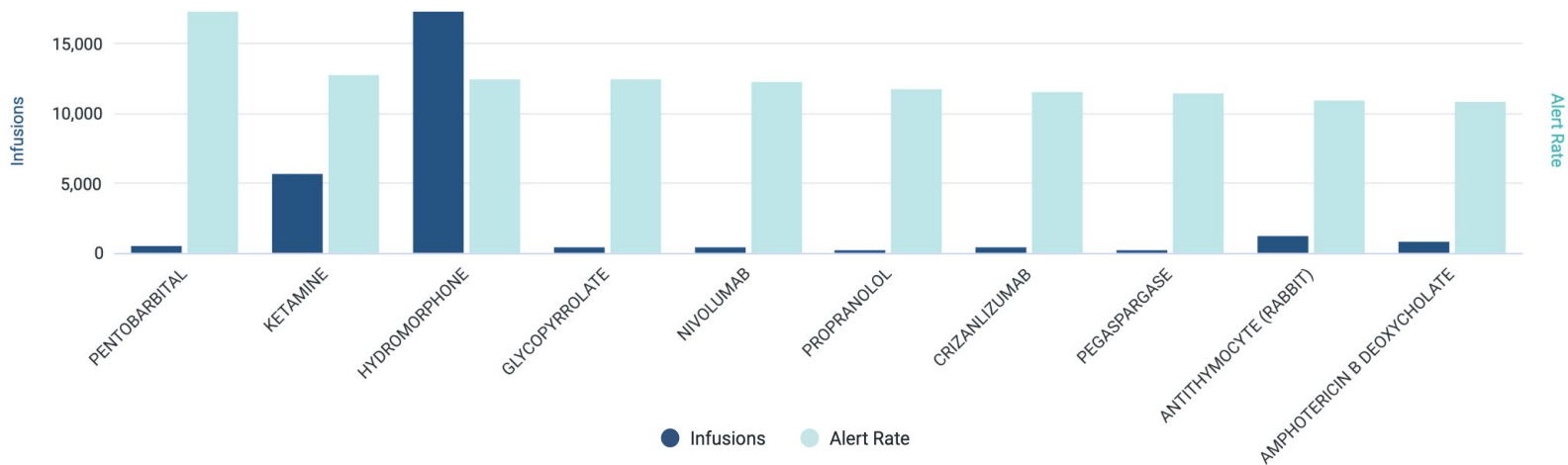
# Alert Metrics

July 1, 2024 through December 31, 2024

## Highest Alert Rate Entries in Adult Patients



## Highest Alert Rate Entries in Pediatric Patients



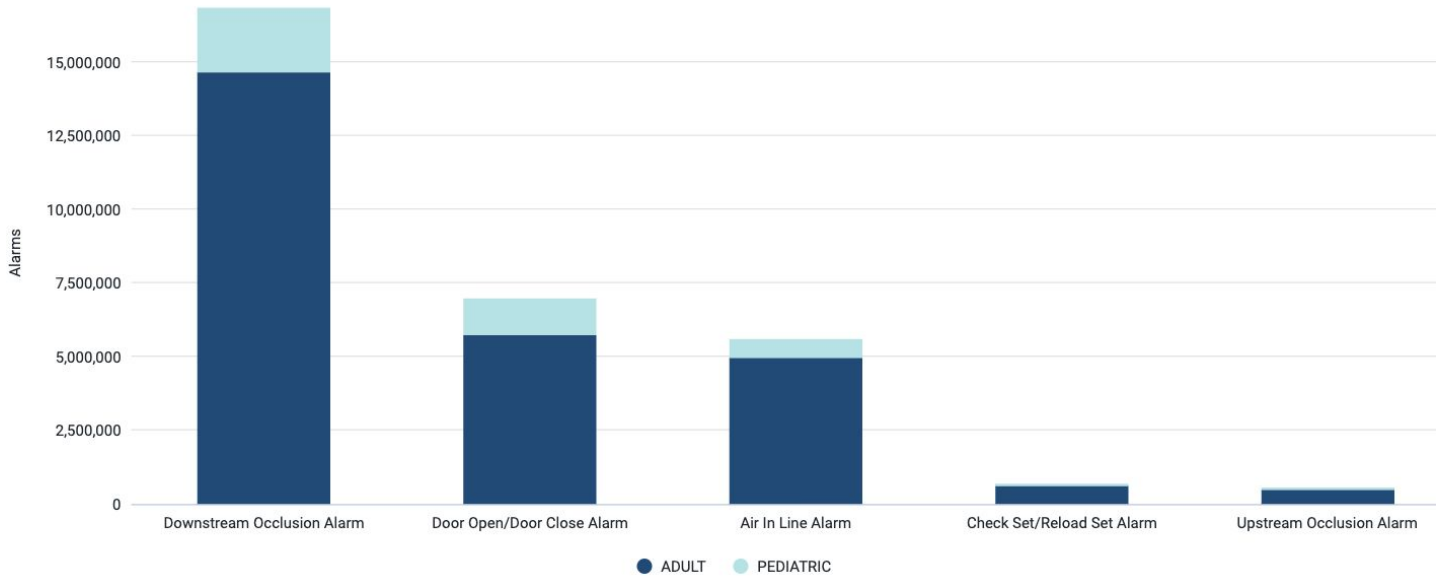
## A Closer Look at Alert Trends

- **1,598,997 alerts** fired across the NIC over 6 months
- **Phenytoin** has the highest **alert rate** in adults. These are primarily **concentration alerts** due to confusion between Phenytoin and Fosphenytoin
- Similarly, **duration alerts** contribute to the high alert rate for **Amphotericin B Deoxycholate** in adults due to confusion between formulations
- **Ketamine** and **Hydromorphone** have significantly high **alert rates** in pediatrics. These are primarily **dose alerts** due to a wide range of dosing for different indications

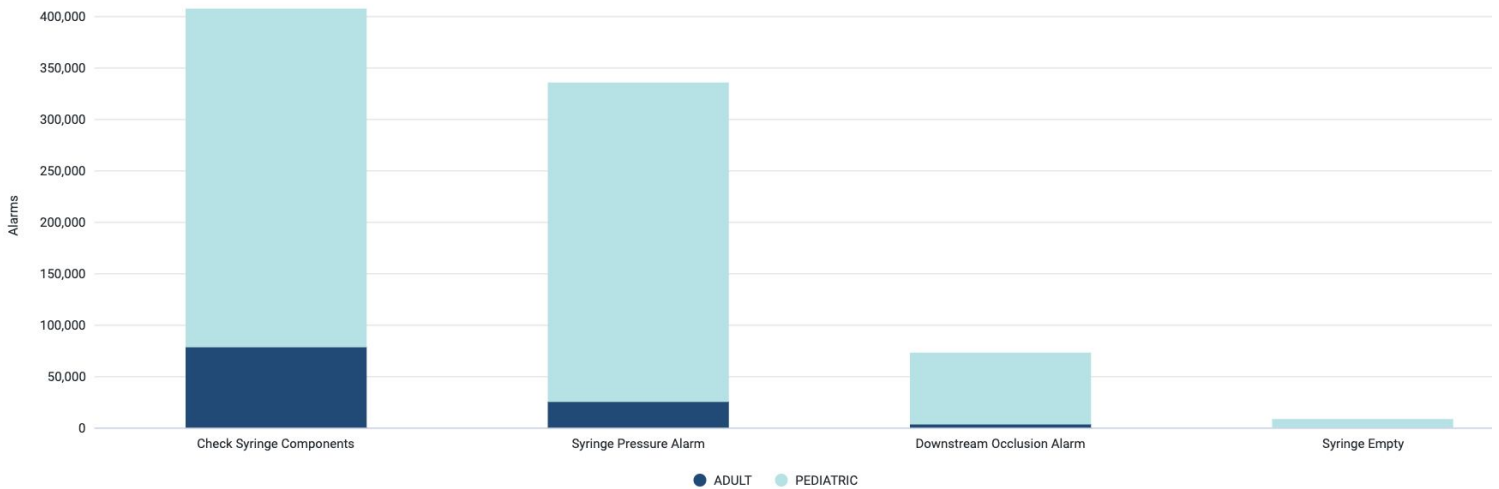
# Alarm Metrics

July 1, 2024 through December 31, 2024

## Large Volume Pump Alarms



## Syringe Pump Alarms



### A Closer Look at Alarm Trends

- **31,967,264** alarms fired across the NIC over 6 months
- There is on average **1 alarm per infusion programmed**
- **Downstream Occlusion Alarms** are the most common alarm type for large volume pumps across all patient populations
- Syringe pump alarms are more common among pediatric patients, with **Syringe Component Alarms (barrel, flange, lever, plunger, etc.)** being the most common alarm type

# NIC Meetings Recap

## IV Fluid Mitigation Efforts

December 2024 | [Watch Here](#)

This fall's hurricane damage caused a nationwide shortage of large-volume IV fluids.

**Baptist Health reduced IV fluid utilization by over 40%** through strategic resource management and clinical practice modifications. **Sanchita Damania, PharmD**, and **Gregory Fakelmann, PharmD**, shared their approaches to scaling and conserving IV fluids, providing actionable strategies to address this critical challenge.



**Sanchita Damania, PharmD**  
Director of Medication Safety and Regulatory

**Gregory Fakelmann, PharmD**  
System Director of Pharmacy Clinical Services



## Standardize 4 Safety (S4S) Implementation Experiences

September 2024 | [Watch Here](#)



**Mary Ann Kliethermes, B.S., Pharm., PharmD, FAPhA, FCIOM**  
Director, Medication Safety and Quality



The ASHP Standardize 4 Safety (S4S) initiative emphasizes the importance of standardized IV medication concentrations, though alignment can be challenging.

**Jeff Hurren, PharmD, BCPS**  
Medication Safety Officer



Michigan Medicine's **Jeff Hurren, PharmD, BCPS**, and ASHP's **Mary Ann Kliethermes, PharmD, FAPhA, FCIOM**, shared insights on implementing and adapting these standards in practice.

## Pump Transition Experiences

June 2024 | [Watch Here](#)

This quarter's NIC clinical meeting will explore member experiences with smart infusion pump transitions, including results from the recent NIC survey.

**Alina Youssef, PharmD, BCPS**, and **Sarah Stephens, PharmD, CPPS, FASHP**, will join to share insights and participate in an open discussion and Q&A on their pump transition journeys, offering strategies and lessons learned.



**Sarah Stephens, PharmD, CPPS, FASHP**  
Network Medication Safety Officer



**Alina Youssef, PharmD, BCPS**  
Clinical Pharmacy Specialist, Critical Care



# Looking Ahead

We're targeting mid-to-late March for the next National Infusion Collaborative meeting. Stay tuned for registration information!

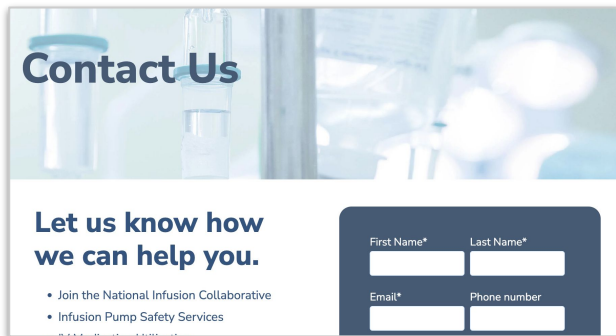
## March 2025

SUN 23	MON 24	TUE 25	WED 26	THU 27	FRI 28	SAT Mar 1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26 NIC Meeting	27	28	29
30	31	Apr 1	2	3	4	5

## Question? Comment?

From future topic ideas to general feedback, we want to hear from you.

Please email us at [nic@bainbridgehealth.com](mailto:nic@bainbridgehealth.com).



**Contact Us**

Let us know how we can help you.

- Join the National Infusion Collaborative
- Infusion Pump Safety Services

First Name\*  Last Name\*

Email\*  Phone number

## Missed a Meeting?

The NIC Meeting Archive is accessible to all NIC members.

[Click here to access the archive.](#)



# Thank you to the member organizations who support the NIC



UMassAmherst

Elaine Marieb Center for Nursing and Engineering Innovation



Regenstrief Center for Healthcare Engineering