FOCUS ON:
Oncology Systems

icu medical
human connections
Powerful medications used in cancer treatments are critical to patient care, but they also pose a safety risk to healthcare workers. At ICU Medical, our focus is on delivering safe, efficient, and cost-effective oncology systems that fit seamlessly into your workflows and help you keep pharmacists and clinicians safe from hazardous drug exposure from preparation to administration.

Focused and committed to helping you deliver

Excellence in Oncology IV Therapy

- Enhance Patient Safety
- Improve Clinical Efficiency
- Maximize Profitability
Complete Line of Diluents and Containers for Preparation of Oncology Admixtures

Preparation with ChemoLock™ & ChemoClave™ CSTDs for USP <800> Compliance

Automated Compounding and Remote Verification with the Diana™ Workflow System

Complete IV-EHR Interoperability with ICU Medical MedNet™

Patient Administration with ChemoLock and ChemoClave CSTDs for USP <800> Compliance

Enhancing Safety

- Track preparation data with automated pharmacy compounding and ensure accurate dosing with smart pump programming infusion technology.
- Maintain a closed system that enhances end-to-end safety and helps to comply with USP <800>.

Improve Efficiency

- Simplify the compounding process with automated compounding with remote verification and ‘click to lock’ CSTD technology.
- Improve nursing efficiency with infusion pumps featuring unique air management and IV-EHR interoperability, along with easy-to-use luer-based CSTDs.
- Reduce chair time by delivering two compatible medications simultaneously at independent rates through a single line.

Maximize Profitability

- Improve financial performance by maximizing reimbursement with accurate infusion documentation and reducing chair time with concurrent medication delivery.
- Minimize CSTD and IV set costs by reducing components at each step.

Helping you keep healthcare workers safe from hazardous drug exposure and comply with USP <800>

Only ICU Medical lets you keep a closed system from beginning to end*

Plum 360™ Infusion Pump with Unique Air Management Technology

Infusion Documentation to Deliver Charge Capture with ICU Medical MedNet

* Plum 360 provides a closed system when using the PlumSet™ with Clave™ secondary port and a closed system transfer device.
In Pharmacy
We design our products to align with your existing workflows, helping you reduce medication errors and streamline the flow of data from pharmacy to nursing.

**Safety**
- Complete Line of Diluents and Containers for Preparation of Oncology Admixtures
- ChemoLock and ChemoClave CSTDs for USP <800> Compliance
- Reduce Exposure to Hazardous Drugs
- Easy-to-Use Closed Systems
- Save Costs with Multipacks and Speciality Kits
- Maintain Sterility of Drug Vial

**Efficiency**
- The Diana Compounding Workflow System for Increased Efficiency
- Remote Verification
- Accuracy without the Use of Gravimetric Scales
- Automated Ambulatory Cassette Filling and Air Removal

**Profitability**
- DEHP-Free Containers Available
- Empty Admixture Containers
In Nursing
We reduce steps while helping you improve safety, letting you focus on your patients.

Safety
Efficiency
Profitability

Full IV-EHR Interoperability with ICU Medical MedNet
- Smart Pump Programming
- Automated Start/Stop Time Capture
- Alarm Forwarding

Plum 360 Infusion Pump with Unique Air Management Technology
- Reduce Air-in-Line Alarms
- Automated Backpriming
- Reliable Secondary Delivery
- Data You Can Trust

ChemoLock and ChemoClave CSTDs for USP <800> Compliance
- Sets with Prebonded CSTDs
- Cost-Effective CSTD Implementation
- Easy-to-Use CSTDs

Enhance Medication Safety with ICU Medical MedNet
- Unmatched Drug Library Compliance
- Comprehensive Reports
- Industry-Leading Cybersecurity
- Deliver Medications as Ordered

ICU Medical offers two CSTD solutions to meet your needs
Enhance safety with compounding and infusion system technology that connects to your EHR

ICU Medical’s easy-to-use closed system transfer devices (CSTDs) and automated compounding workflow system are designed to help you minimize exposure to hazardous drugs and comply with USP <800>. Our smart infusion systems with ICU Medical MedNet safety software and full IV-EHR interoperability act as an extension of your electronic health record (EHR), helping you reduce medication errors, increase patient safety, and streamline the flow of data from pharmacy to administration.

Maximize safety and maintain a closed system from preparation through administration with easy-to-use USP <800> compliant CSTDs*

- The ChemoLock system’s locking mechanism eliminates unsafe disconnects, helping you meet NIOSH requirements and comply with USP <800> CSTD guidelines.

Track preparation data and enhance accuracy with IV workflow technology and automated pharmacy compounding that connects to your EHR

- Connecting the Diana compounding workflow system to your EHR lets you maintain an accurate record of each preparation, ensuring greater accuracy than manual compounding.
- Automated compounding with Diana has been shown to provide compounding accuracy of ±1%.¹

Ensure accurate dosing with smart pump programming technology and maintain a closed system with air management pump technology*

- ICU Medical MedNet IV safety software helps you eliminate potentially catastrophic dosing errors associated with manual programming, while our proven Plum 360 infusion system helps you reach up to 98% drug library compliance.
- Plum 360 is the only infusion system to allow automated backpriming to remove air from the line without disconnection, helping you maintain a closed system throughout drug delivery.
- Plum 360 eliminates the risk for common secondary setup errors, which have been shown to occur in 48% of secondary infusions.

¹ Maximize safety and maintain a closed system from preparation through administration with easy-to-use USP <800> compliant CSTDs.

ICU Medical CSTDs pass the NIOSH protocol*
Improve efficiency with innovative technologies designed to complement the way you work today

ICU Medical’s oncology systems deliver everything you need to standardize your IV oncology workflow. Our Diana drug compounding workflow system combines both automation and IV workflow technologies with wireless pharmacist notification to let you remotely verify preparations on a handheld tablet. You can streamline the flow of medications and data from pharmacy to administration with smart pump programming technology and IV pumps with complete IV-EHR interoperability.

Speed up the compounding process with remote pharmacist verifications and easy-to-use ‘click to lock’ CSTD technology

- With Diana, you can maximize compounding efficiencies and safety by remotely verifying every mix without having to gown up and enter the cleanroom.
- Prepare medications more safely and efficiently using our ChemoLock CSTD that snaps together with an audible click to ensure a safe and secure connection.

Improve nursing efficiency with infusion systems featuring closed air management and full IV-EHR interoperability

- Reduce the time it takes nurses to program pumps by up to 25% with smart pump programming, freeing up nurses to spend more time caring for patients.
- Eliminate manual steps traditionally required for EHR documentation with infusion documentation.
- Monitor alarms more efficiently and effectively with alarm forwarding.

Air-In-Line Alarms

- Over the course of three administration cycles, the competitive pump registered a total of 21 air-in-line alarms while the Plum 360 registered zero alarms.  

<table>
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<th>Plum 360 Average</th>
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*

JW Beare, Zehra Madhany, Heather Witek. The Role of Infusion Pump Technology in Optimizing Efficiency in Cancer Care Delivery, 2017.
Maximize profitability by improving reimbursements and lowering product implementation costs

From preparation to administration, ICU Medical IV oncology technologies help you effectively and efficiently boost profitability. Our infusion systems become an extension of your EHR to help you maximize revenue capture and eliminate lost charges through accurate documentation. Our unique secondary delivery technology lets you purchase fewer devices to administer the same amount of medications, while our lower cost CSTDs are included on pre-assembled sets with bonded components to maximize safety and minimize set costs.

Minimize CSTD and IV set costs by reducing components at each step

Offset administration costs while preventing accidental misuse and reducing set-up time with CSTDs requiring no extra parts or add-on components.

Reduce costs and packaging waste with options to purchase multipack CSTD components.

12% Reduction in chair time by concurrent medication delivery with Plum 360

10% Reduction in cost with multipacks

Improve financial performance by maximizing reimbursements with accurate infusion documentation and reducing chair time

Increase revenue capture with accurate infusion documentation of start/stop times.

Purchase fewer devices and reduce operating expenses by delivering compatible medications via secondary set with the unique concurrent flow technology of the Plum 360.

Improve patient turnaround time by reducing air-in-line alarms with the unique air management technology of the Plum 360.

Total Annual Costs Associated with Implementing Competing CSTDs

The ChemoClave system, which meets the NIOSH definition of a closed system, was shown to cost up to $307,000 less to implement than competing systems.

* Component cost may vary slightly due to manufacturing price changes, contract pricing, and/or volume discount pricing. Texium/SmartSite is marketed as a closed system, not a CSTD.

10% Reduction in cost with multipacks

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A commitment to exceptional ongoing technical support and clinical education

Our commitment to you doesn’t end with the purchase. We provide a dedicated support organization with a wealth of knowledge, resources, and technical training opportunities to help you maximize the value of your investment in ICU Medical products.

When you choose ICU Medical, you are choosing a true partner who will be with you every step of the way, offering:

› Best-in-class technical and clinical in-servicing
› Dedicated field service engineers available
› Personalized instructional materials