



smiths

Smiths Medical

The Medfusion™ PharmGuard®  
Medication Safety System

*Smart and simple with added safety*

The challenges you face.



The Department of Health estimates we will be facing a shortage of over 800,000 nurses by the year 2020! Current shortages are having serious effects on day-to-day healthcare, and many nurses feel overworked and stressed – a situation that may lead to medication errors. JCAHO estimates 25% of hospitalized patient deaths are related to nurse understaffing<sup>2</sup>

*MRI settings: The Medfusion™ Pump may be used in static magnetic fields outside the 150 Gauss line when secured to a non-movable object. Tested using 1.5 Tesla 64MHz shielded MRI system.*



### The dangers of medication errors

- As many as 19 patients die every day from medication errors in the United States<sup>3</sup>
- More than 770,000 injuries and deaths are due to preventable drug errors, which cost hospitals up to \$5.6 million per year<sup>3</sup>
- 61% of serious and life-threatening errors are associated with infusion therapy<sup>3</sup>
- Infusion devices account for up to 35% of all medication errors, with 67% due to programming errors<sup>4</sup>
- 38% of medication errors occur during the administration process; 51% harmed the patient<sup>5</sup>

<sup>1</sup> National Center for Workforce Analysis, U.S. Department of Health and Human Services

<sup>2</sup> JCAHO, 2002

<sup>3</sup> Materials Management in Health Care, Oct. 2005

<sup>4</sup> Tourville, 2003

<sup>5</sup> JAMA, 1995



## The total solution

The Medfusion™ Syringe Pump safety system has been the leader in infusion pump technology for over 15 years.

Innovations in syringe recognition, drug libraries and PharmGuard® Medication Safety Software with programmable safety limits make it easier to improve safety for you and your patients.

The unique, easy-to-use, and easy-to-learn design of the Medfusion™ 3500 Syringe Pump with PharmGuard® Medication Safety Software gives you the ability to customize the platform to your institution's practices. In other words, it adapts to the way you work, not the other way around.

For safety and exceptional value, the Medfusion™ 3500 Syringe Pump is the best solution for today's busy healthcare environments.



**FlowSentry™** provides unmatched pressure sensing technology for earlier clinical intervention

**Removes the possibility** of a patient receiving an automatic bolus following an occlusion

**Variable flow rates** (0.01mL/hr—1130mL/hr) and the capacity to infuse at low flow rates with larger syringes

**Wide screen** allows up to 30 characters for each drug name to help reduce need for abbreviations

**Internal battery capacity** of 10 hours at 25°C infusing at 5.0mL/hr with 60mL syringe (with fully charged battery)

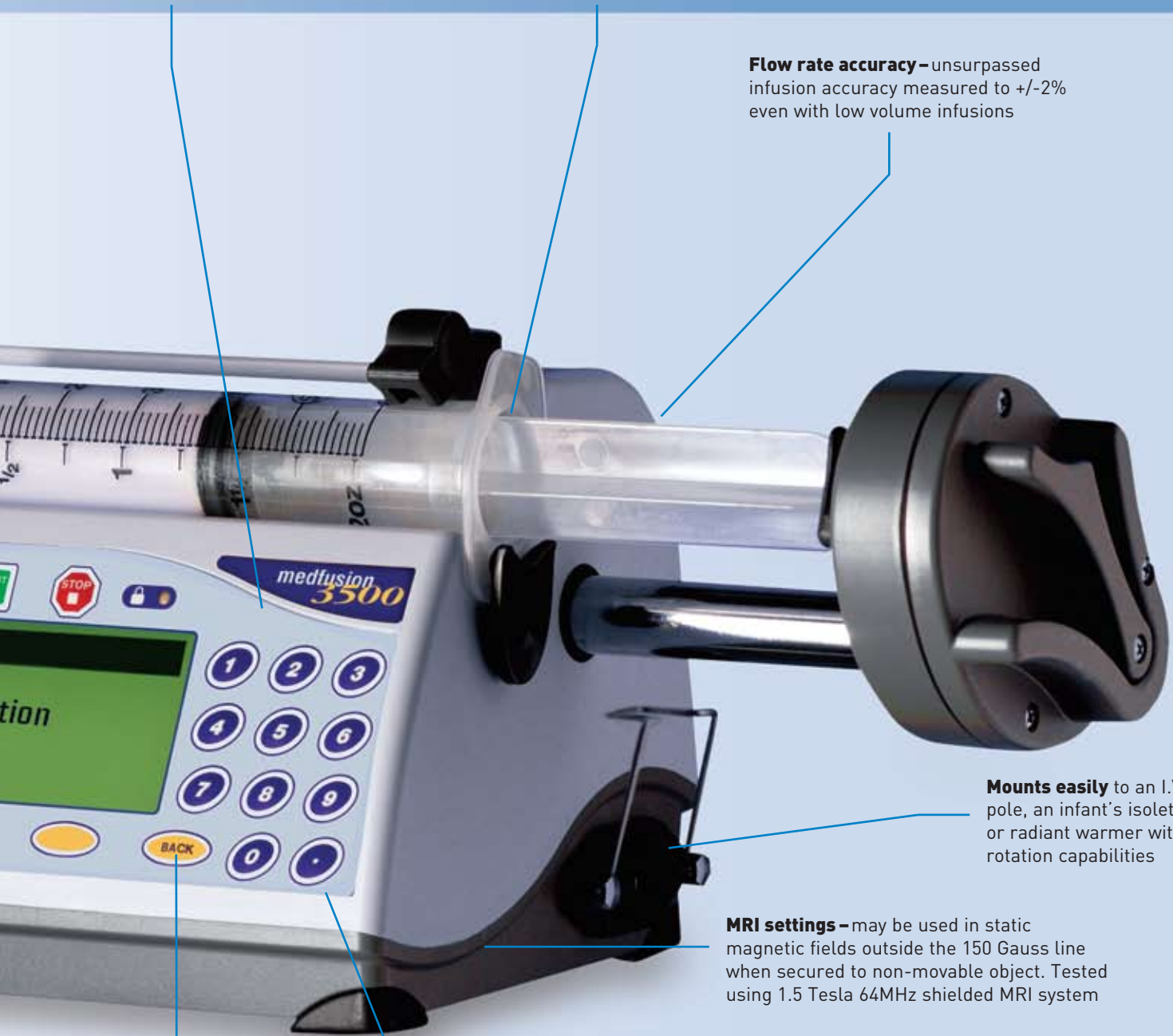
**Bio-Med log-on line** to set PM dates, view service history, and access calibration and diagnostic testing



**More than 125 delivery mode combinations** including mL/hr, body weight, mass, volume over time, custom dilution and intermittent, loading dose, bolus dose, standby, volume limit, and KVO rate

**Accepts multiple syringe sizes** and automatically detects various syringe types from 1mL to 60mL

**Flow rate accuracy** – unsurpassed infusion accuracy measured to +/-2% even with low volume infusions



**Mounts easily** to an I.V. pole, an infant's isolette, or radiant warmer with rotation capabilities

**MRI settings** – may be used in static magnetic fields outside the 150 Gauss line when secured to non-movable object. Tested using 1.5 Tesla 64MHz shielded MRI system

**Back button** makes work easier and faster by enabling user to go back one step, rather than starting over

**Ergonomic, easy-to-use, horizontal design** protects entire syringe barrel and allows single-handed loading of syringe



## PharmGuard® Medication Safety Software ... a safety solution committed to your concerns

### Go anywhere in the hospital

The 16 programmable care area profiles allow you to safely take the Medfusion™ 3500 Syringe Pump into any department in the hospital. You control all the variables:

- Alarm volume, times, and type
- Weight, volume, and occlusion programmable limits
- Enable/disable loading and bolus dose therapies
- Specific auto prompts, infusion units, syringe types, and standard dose/Rule of 6
- To address anesthesiologists' needs for quick infusion, the PharmGuard® Medication Safety Software features the QuickLibrary™ alternative

The PharmGuard® Medication Safety Software is a key error reduction feature of the Medfusion™ 3500 Syringe Pump. It helps promote best practices recommended by top hospitals, accreditation and regulatory bodies.



- It sets hard and soft safety limits for all modes of delivery such as: dose, rate, time, weight, concentration, and volume
- Large character capacity makes it possible to input full drug names and concentrations
- Clear, "Tall Man" lettering is displayed to avoid drug confusion
- Unlimited customizable drug alerts
- Configurable solutions to meet your specific requirements, wherever you are in your healthcare facility

### Easier to use, faster to program

The Medfusion™ Syringe Pump program is easy to navigate, which simplifies training. And setting it up has never been easier.

- The "help wizard" walks you through every step
- The easy-to-read display keeps it simple and understandable – follow the setup prompts at the top of the screen
- Single channel responsibility – no confusing channel ID
- A back button to avoid additional steps



# Innovative solutions for today and tomorrow

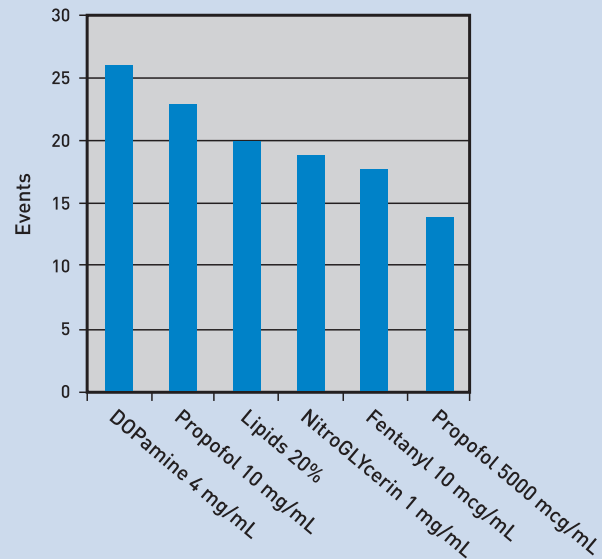
For continuous improvement and education initiatives, Smiths Medical offers the PharmGuard® Toolbox along with the PharmGuard® Medication Safety Software suite.

This PC-based authoring tool lets healthcare facilities configure their safety limits and profiles so that they are appropriate for each of the 16 patient care areas. In addition, the PharmGuard® Toolbox allows hospitals and healthcare facilities to generate standard PharmGuard® reports or design custom reports to measure the effectiveness of their safety practices.

The addition of PharmGuard® Toolbox reports will let facilities evaluate probable adverse events and establish best practices.

## PharmGuard® Toolbox Custom Reports

*All Safety Events by Drug Program*



For more information, call your Smiths Medical representative or visit us at [www.smiths-medical.com](http://www.smiths-medical.com).

## Dedicated to superior service



The Smiths Medical team is a diverse staff with a wealth of experience in all areas of healthcare. With resources such as dedicated Customer Advisory Groups or infusion specialists that focus on the procedures and practices of our infusion customers, we are committed to providing an exceptional level of service to each and every one of our customers.

### Clinical education

Our Clinical Education program features a team of Advanced Practice Clinicians and Pharmacists who can provide clinical expertise while guiding you through the implementation process from start to finish.

We develop customized implementation plans based on your needs and provide multimedia training materials when necessary. At Smiths Medical, our objective is to provide you with total customer satisfaction throughout the life of our products. To that end, we promote a teaching and learning culture that is beneficial to both of us.

To learn more, visit [www.smiths-medical.com](http://www.smiths-medical.com), contact your Smiths Medical representative, or call 1-800-848-1757.

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