

MARIAN MEDICAL, INC.

# Medicina's SUPERLOCK

Enteral Safety System

2013

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**M**edicina, Ltd. has been supplying the European hospital and home healthcare market with safety enteral feeding supplies for over 18 years. They have developed a complete range of equipment for the safe and secure delivery of enteral formula, feeds, medicines and flushes to the neonatal, pediatric and adult patient.

The **SUPERLOCK™** syringes and accessories are color coded purple to be in line with the European standard EN 1615 for enteral devices and the International Standards Organization, **ISO CD 80369-3** for enteral feeding equipment.

*Color is a risk reduction strategy...The SUPERLOCK™ System is a patient SAFETY strategy!*

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The **SUPERLOCK™** connectors are larger than standard IV Luers, therefore, it is mechanically impossible to accidentally connect any device to the **SUPERLOCK™** system to any intravenous device under any circumstances. Also, the technique to make the connection is the same as with existing devices, so there is no special training needed for the end users.

*The SUPERLOCK™ Enteral  
Safety Feeding System prevents  
both misconnections as well as  
disconnections!*

The **SUPERLOCK™** Enteral System has a complete range of color coded safety syringes with their purple colored plunger, unique fitting system and clear barrel marked “**oral/enteral syringe**” unmistakably distinguishes them from IV syringes. This system assures accuracy, not only for the pharmacist, but also for the bed side nurse who is drawing up and administering medications, feeds, or flushes to clearly see the measurement markings as well as the distinctive color of certain fluids being administered to the patient.

*United States Pharmacopeia-32, National Formulary 27 (USP), General Chapter -671-Light Transmission Standard cannot allow light transmission of more than 10% of high energy light in the ultraviolet (UV) and visible violet range (from 290nm to 450nm) in the light spectrum.*

*Indeed, proper storage conditions are essential for the efficacy of many drugs, however, degradation and loss of activity occurs after several hours and for some drugs, days of UV exposure.*

*Are you getting a USP-Light Transmission Syringe, or just a false sense of security with a lightly colored amber syringe?  
Request Certification of ISO 13485:2003 from your supplier.*

## Making the connection with the SUPERLOCK™ Feeding System

### The Syringe

*The nozzle of the SUPERLOCK™ syringe is a female type connector slightly larger than standard IV syringes, **preventing the connection between IV and enteral.***

### The Feeding Tube

*The hub of the SUPERLOCK™ feeding tube is a male Luer type connector, slightly larger than the standard IV Luer Lock connectors, therefore, **eliminating the possibility of a wrong route administration of an IV solution directly into the patients feeding tube.***

### The Connection

*The SUPERLOCK™ feeding system locks into place, **eliminating disconnections.***

## Making the connection with the Oral Dose Feeding System

### The Syringe

*The tip of the Oral Dose syringe is slightly larger than Luer tip syringes, **preventing the connection between IV and enteral.***

### The Feeding Tube

*The hub of the Oral Dose feeding tube is a female type connector which allows for the potential of an IV type syringe (Luer Lock, Luer Slip Tip, Luer Eccentric Tip and other add-to adapters) to connect, therefore, **allowing for the possibility of a wrong route administration of an IV solution directly into the patients feeding tube.***

### The Connection

*The Oral Dose feeding system is a slip-tip type connection, **allowing for disconnections!***

*The International Standards Organization, ISO CD 80369-3 for enteral feeding equipment committee found the open female hubs of oral dose type feeding tubes unsafe and rejected them because they allow IV access directly into the feeding tube when using a Luer slip tip IV syringe, Luer eccentric tip IV syringe, and other tapered tip adapters used throughout the medical community.*

**M**edicina has designed the P900 Enteral Syringe Pump to deliver small volumes of enteral feeds accurately and safely to the neonatal and pediatric patient. The outstanding feature of the P900 is that *only* SUPERLOCK™ syringes will operate in the

*ALL varieties of IV syringes are incompatible!*

pump.

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*Issue 39: Preventing pediatric medication errors/Joint Commission*

*“Recognize that the use of infusion pumps, or smart pumps, is not a guarantee against medication errors”.*

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The **SUPERLOCK™** Enteral Syringes provide the widest internal tip diameter, which gives a better flow for the delivery of gravity or bolus feeds. The wide internal tip of the syringe allows for easier drawing-up of breast milk and formula into the syringe barrel. Reverse Luer type syringes also produce lower delivery pressure for medications.

The **SUPERLOCK™** Enteral Syringe, with its unique fitting system and purple colored plunger unmistakably differentiates it from IV syringes as well as other oral syringes used in the adult patient population.

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**Issue 39:** *Preventing pediatric medication errors/Joint Commission*

**Risk reduction strategies:** *Pediatric-specific strategies for reducing medication errors.*

*“37.5 percent of the pediatric medication errors were due to improper dose/quantity”*

*“9.4 percent of pediatric medication errors were wrong administration technique”*

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***Because most pharmacies are primarily built around the needs of adults, the SUPERLOCK™ enteral only syringes for your Neonatal/Pediatric patient population, is a “Risk Reduction Strategy!”***

The SUPERLOCK™ feeding tubes have a connector that securely fits the syringes and administration sets. The tubing itself is smooth and carries distance marks to reference tube position. All tubes have a radio-opaque stripe to confirm position with X-ray.

SUPERLOCK™ feeding tubes are available in polyurethane and silicone in popular sizes. Additionally, nasojejunal tubes and repleg irrigation/aspiration tubes are available with the system.

- *There are several extension sets available that are used to connect the feeding container or syringe to the nasogastric tube.*
- *There are several adapters to help connect to other feeding devices like gastrostomy tubes.*
- *The SUPERLOCK™ also has a range of drainage bags all with SUPERLOCK™*

*connectors to allow gastric drainage from nasogastric tubes or other devices.*

- *There are also several SUPERLOCK™ adapters to help access medicine containers and feed containers.*

***The SUPERLOCK™ prevents both misconnections as well as disconnections!***