



The ZR Difference

ZR Syringe Technology

Anti-reflux technology*

- reduces syringe-generated reflux¹

Enhanced label

- helps lower the risk of a medication error

Syringe Clarity

- improves visual inspection of solution



All Excelsior Prefilled Syringes

- Terminally sterilized for additional safety
- Unit dose packaging - ready to use
- 2 year shelf life
- Barcoded to speed inventory control and minimize errors
- Latex and preservative free
- Resource effective - staff focus on patient care - not syringe filling
- Helps pharmacy comply with USP 797



*Data on file at Excelsior Medical Corporation

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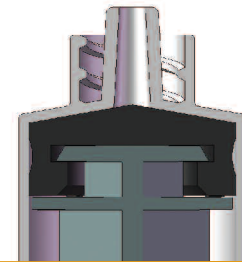
The ZR Difference. Clearly, part of the solution.

ZR syringe technology addresses syringe-related reflux.

Recent literature^{2,3,4} focuses on many causes of catheter occlusions:

- Catheter composition and type
- Catheter size
- Drug precipitates
- Catheter use protocols
- Connector devices
- Needleless injection caps
- Nurse technique
- Fibrin sheath development
- **Type of syringe**

Excelsior Medical's new ZR family of syringes are designed specifically to minimize syringe-related reflux.



SYRINGE COMPARISON

	ZR	Competitor B	Competitor C
Designed to reduce reflux	Yes	Yes	Yes
Terminally sterilized	All products	Only saline	All products
Full line of heparin products (1, 2, 10, and 100 Unit/mL)	Yes	No	No
Enhanced labeling	Yes	Yes	Yes

Description	Code	Units/Box	Units/Case	NDC Number
Saline				
Sterile Field Saline Flush, 2 - 10mL syringes per pouch	100 92	30 pouches/box	240 pouches/case	63807 0100 92
Sterile Field Saline Flush, 1 - 10mL syringe per pouch	100 91	35 pouches/box	280 pouches/case	63807 0100 91
2.5mL Saline in 3mL Syringe	E0100 30	100	800	63807 0100 30
3mL Saline in 10mL Syringe	E0100 35	100	800	63807 0100 35
5mL Saline in 6mL syringe	E0100 50	100	800	63807 0100 50
5mL Saline in 10mL Syringe	E0100 55	100	600	63807 0100 55
10mL Saline in 10mL Syringe	E0100 75	100	600	63807 0100 75
10mL Saline in 10mL Syringe	E0100 01	100	600	63807 0100 01
Heparin				
1U/mL Heparin 3mL in 10mL Syringe	E0300 35	100	600	63807 0300 35
2U/mL Heparin 3mL in 10mL Syringe	E0400 35	100	600	63807 0400 35
10U/mL Heparin 5mL in 10mL Syringe	E0500 55	100	600	63807 0500 55
100U/mL Heparin 5mL in 10mL Syringe	E0600 55	100	600	63807 0600 55



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¹ Refers to reflux generated by syringe plunger. Data on file.

² Schilling, S., et al. "The impact of Needleless Connector Device Design on Central Venous Catheter Occlusion in Children: A Prospective, Controlled Trial." J. Parenteral and Enteral Nutrition, Vol. 30, No. 2, 2006, pp. 85-90.

³ Hardy, G. and Patrick Ball. "Clogbusting: time for a concerted approach to catheter occlusions?" Current Opinion in Clinical Nutrition and Metabolic Care 2005, 8:277-283.

⁴ Hadaway, L. "Flushing vascular access catheters: Risks for infection transmission." Infection Control Resource, Vol 4, No. 2, 2007.

ZR is a trademark of Excelsior Medical Corporation.