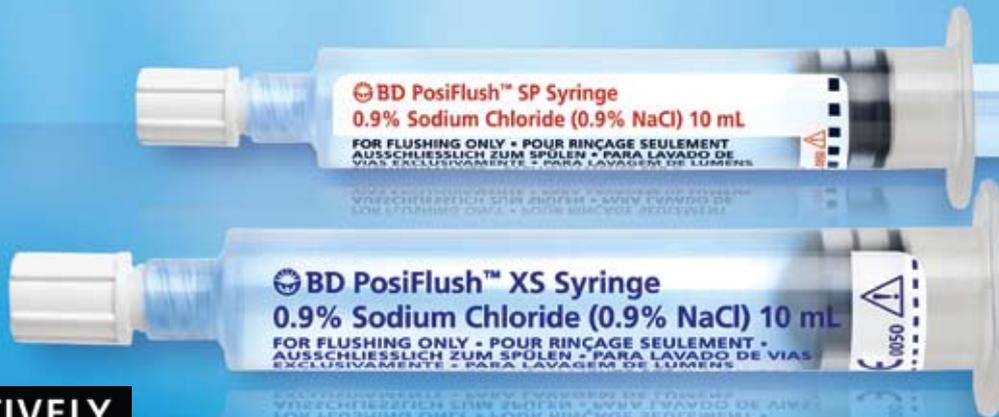


BD PosiFlush™ Pre-Filled Flush Syringes



Helping all people
live healthy lives

BD PosiFlush™ helps reduce the risk of catheter related bloodstream infections (CRBSI).

Approximately 8% of manually prepared flush syringes are contaminated prior to administration, and over one third of all hospital-acquired bacteraemias are associated with central and peripheral IV catheters.¹

Potentially, this could mean that in a typical hospital for every 100,000 manual flushes administered 8,000 are at risk of being contaminated.



In patients with MRSA bacteraemias the most frequently identified source is via invasive devices, particularly peripheral cannulae and central venous cannulae.²

A bloodstream infection can cost an estimated £6209 per patient.³

“From 19 different wards 168 syringes were collected, of which 14 were contaminated (8.3%). We conclude that flush syringe preparation in wards can result in contamination of intravenous infusion delivery systems⁴” Calop J, et al. 2000

Pre-Filled Flushing:

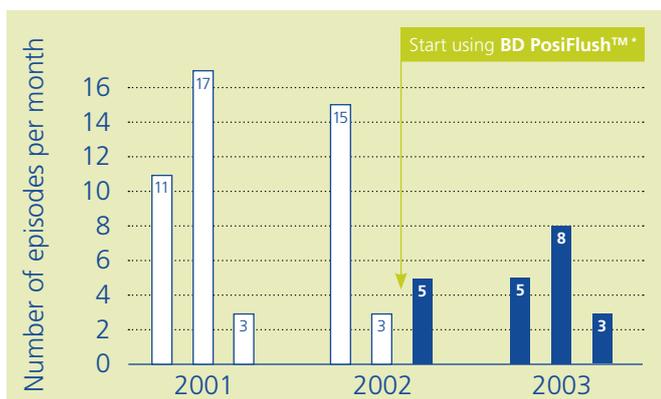
- Eliminates the need for glass vials or ampoules
- Eliminates the use of needles and helps to reduce the risk of needlestick injury
- Eliminates potential for multi-dose cross contamination
- Simplification of preparation reduces likelihood of breaks in aseptic technique

Fewer steps to prepare and flush means less risk of pathogen contamination

Traditional Method – 14 Steps	BD PosiFlush™ – 6 Steps
1. Remove syringe from packaging	1. Clean the access port and allow to dry
2. Open needle packaging and attach to syringe	2. Remove BD PosiFlush™ syringe from packaging
3. Disinfect the ampoule	3. Release stopper seal
4. Break the ampoule	4. Unscrew cap and expel air
5. Remove needle cover	5. Connect BD PosiFlush™ syringe to catheter extension
6. Insert needle into ampoule and withdraw saline	6. Disconnect syringe maintaining positive pressure
7. Expel air	
8. Remove and dispose of the needle	
9. Attach a sterile cap to the syringe tip	
10. Write and attach a label to the syringe barrel	
11. Clean access port and allow to dry	
12. Remove sterile cap	
13. Connect the syringe to the catheter extension	
14. Disconnect syringe maintaining positive pressure	



- Compared to manually prepared flush syringes, studies show that pre-filled syringes help avoid infusate contamination⁵
- There was also a significant reduction (~69%) in the time taken to prepare the prefilled syringes compared with the conventional syringe system (P< 0.0001), 15 seconds vs 48 seconds⁵



Studies have shown that patients are often exposed to blood stream infections through poorly maintained IV lines.^{4,5,6} BD launched the first pre-filled saline flush in order to help reduce the risks associated with flushing in-situ vascular access catheters - one subsequent study showing a 46% reduction in haemodialysis bacteraemia infections.⁶

References

1. Surveillance of Hospital-Acquired Bacteraemia in English Hospitals. A national surveillance and quality improvement programme. 1997-2002. NINSS. PHLS
2. National Confidential Study of Deaths following Meticillin-Resistant Staphylococcus aureus (MRSA) Infection; HPA & ONS 2007
3. National Audit Office. The management and control of hospital acquired infection in Acute NHS Trusts in England. London. The Stationery Office. 2000
4. Calop J, Bosson JL, Croize J, Laurent L. Maintenance of peripheral and central intravenous infusion devices by 0.9% sodium chloride as a potential source of catheter microbial contamination. J Hosp Infect. 2000 (46) Issue 2, 161 -162
5. Worthington T, Tebbs S, Moss H, Bevan V, Kilburn J, Elliot TSJ. Are contaminated flush solutions an overlooked source for catheter related sepsis? J Hosp Infect. 2001 (49) Issue 1
6. Valérie LAMELOISE, Head of Infection Control & Jean-Jacques RESPLINGER, Head Nurse, haemodialysis care unit – CHR METZ THIONVILLE – Thionville Hospitals, data on file

BD, BD logo and all other trademarks are property of Becton, Dickinson and Company ©2010



Helping all people
live healthy lives

BD Medical
The Danby Building
Edmund Halley Road
Oxford Science Park
OXFORD OX4 4DQ

01865 781666