Safe and Accurate Blood Sampling in Surgery and Intensive Care

Edwards VAMP Plus System

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Introducing advanced protection for

Expanding on our leadership in closed, needleless blood sampling, we've developed the innovative VAMP Plus system. It continues to provide the proven safety, convenience and patient protection of the original VAMP system, but now features a one-handed, 12-cc reservoir, allowing ample clearing volume for use in the operating room as well as the intensive care unit. Input from clinicians and our partnership with our customers allow us to create products to better address your real-life critical-care needs.

Flexible Blood Sampling in Surgery and Critical Care

The advanced design of the VAMP Plus system provides a large-volume reservoir with two sample sites, allowing for convenient and flexible blood sampling in both surgery and intensive care.

- 12-cc reservoir provides substantial clearing volume for surgical sampling
- Two sample sites enhance user flexibility in surgery and critical care
- One-handed operation provides convenient withdrawing and reinfusing of the clearing volume
- Audible lock confirms that the reservoir is secure

Safe Blood Sampling

The VAMP Plus design provides a safe, closed, needleless blood sampling system. Using the VAMP Plus system can reduce the risk of infection,[1] eliminate needlesticks and conserve patient blood.

- Self-sealing sample port reduces the risk of infection by stopcock contamination

Two options for blood sampling: Direct Draw Unit or 3-cc ABG Syringe with needleless cannula

Needlestick Injury Infections

Virus	Chance of Infection if Exposed to Blood Containing Virus
HIV	*Very Low* — there is a 0.3 percent (1 in 333) chance of being infected.
Hepatitis C (HCV)	*Higher* — there is a 5 percent (1 in 20) chance of being infected.
Hepatitis B (HBV)	*Highest* — there is a 6 to 30 percent (between 1 in 6 and 1 in 3) chance of being infected.

Source: *SEIU Guide to Preventing Needlestick Injuries, 1998; p. 6*

Needleless cannula

- Blunt cannula design provides safety by eliminating needlesticks
- Blood sample sites use the familiar Interlink technology
- Unique reservoir design maximizes blood conservation by eliminating the need to discard clearing volume
- Internal contamination shield provides added protection

A Convenient and Accurate System

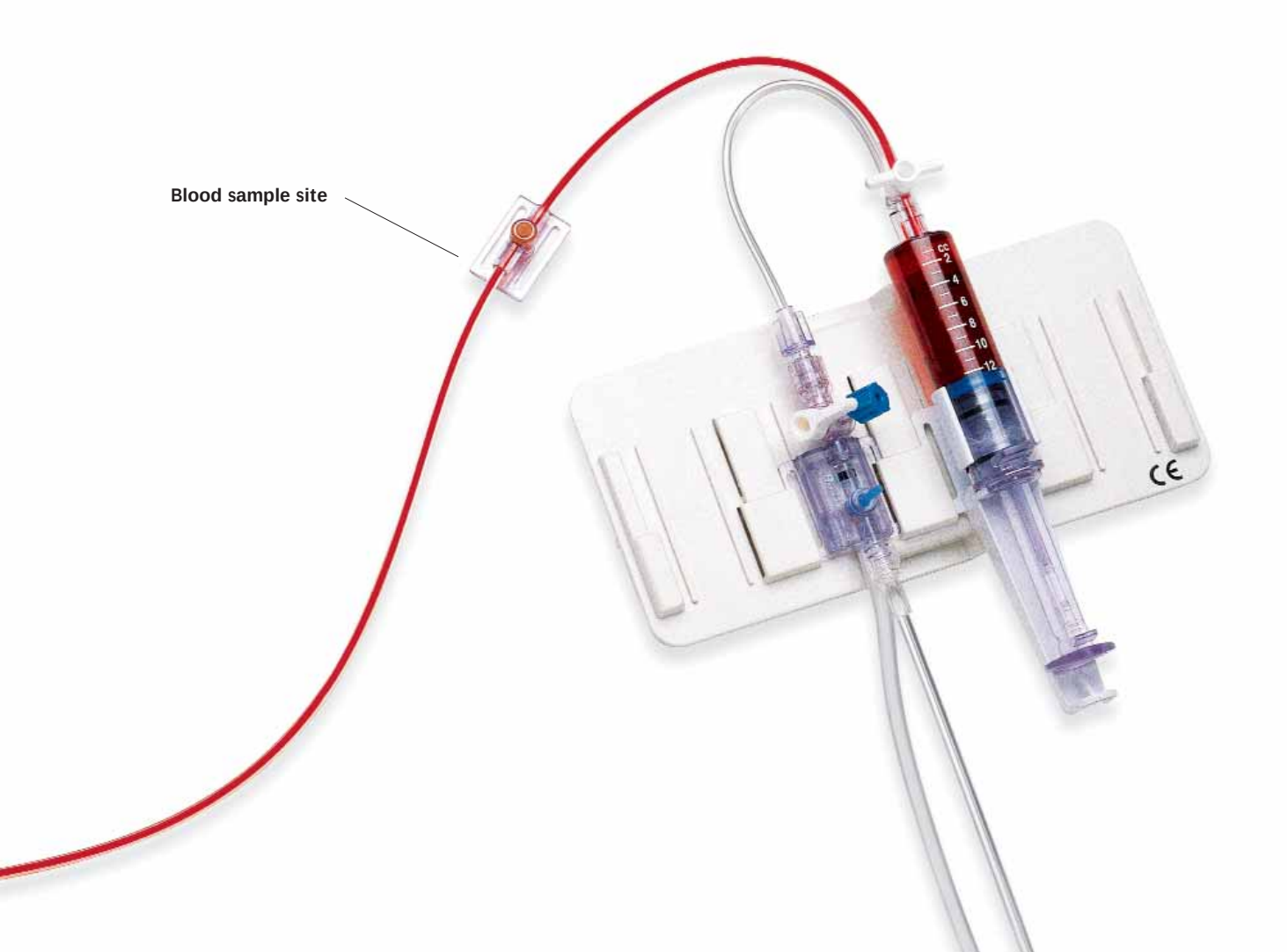
The VAMP Plus system is designed to enhance accuracy and convenience, streamlining the blood sampling process.

- Easy-to-use system produces uniform clearing volumes and accurate, consistent samples
- Reservoir orientation allows for easy visualization of blood withdrawal and reinfusion, as well as system flushing
- Versatile reservoir design can be bracket mounted on an IV pole or used as a syringe

Compelling Economic Advantages

The VAMP Plus system is a closed system for safer, easier blood sampling. It protects clinicians from unnecessary exposure to blood, enhances patient safety and protects your hospital's bottom line.

- Needleless cannula eliminates needlesticks, which occur approximately a million times per year and cost $600 to $1,000 per case to treat
- Advanced design eliminates more than half the steps of traditional blood-sampling procedures



Comprehensive Selection of VAMP Plus Kits

VAMP Plus kits are designed for a wide range of real-life requirements. The VAMP Plus system combined with TruWave Disposable Pressure Transducers provides you with a complete and reliable closed, needleless blood sampling system with accurate pressure readings in one complementary unit.

Contact your Edwards Lifesciences representative for additional information about the VAMP Plus closed blood sampling system.

VAMP Plus Kits	Model Number
VAMP Plus reservoir with 60" patient tubing and one sample site located 55" from the patient; pole mountable	VP1
VAMP Plus reservoir with 60" patient tubing and two sample sites located 13" and 55" from the patient; pole mountable	VP2
VAMP Plus/TruWave DPT Combination Kits	**Model Number**
VAMP Plus reservoir/TruWave DPT combination kit with 60" patient tubing and two sample sites located 13" and 55" from the patient; pole mountable	PXVP2260
VAMP Plus reservoir/TruWave DPT combination kit with three TruWave transducers, 60" patient tubing and two sample sites located 13" and 55" from the patient; pole mountable	PXVP23X3
VAMP Plus Accessories	**Model Number**
Needleless cannula VMP400	VMP400
3-cc heparinized ABG Syringe with needleless cannula	VMP503H
Blood Transfer Unit (BTU) for sample transfer to vacuum tubes	VMP600
Direct Draw Unit for direct line blood sampling	VMP700

VAMP Plus Clearing Volume/Deadspace Ratio*

Catheter Length	Proximal Sample Site 13" from Patient		Distal Sample Site 55" from Patient	
	Volume to Sample Site (cc)	Deadspace Ratio	Volume to Sample Site (cc)	Deadspace Ratio
1-3/4"	0.79	15.2	2.88	4.2
4-1/4"	0.88	13.6	2.98	4.0

**All values calculated using a 20-ga radial artery catheter*

Reference:
1. Peruzzi WT, Noskin GA, Moen SG, et al. Microbial contamination of blood conservation devices during routine use in the critical care setting: results of a prospective, randomized trial. Crit Care Med. 1996;24:1157-1162.

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