Safe, simple and reliable closed blood sampling for effective patient blood management.

VAMP Systems
Venous Arterial Blood Management and Protection
Reduce blood loss, hospital-acquired infections, transfusion needs and related complications with VAMP systems.\textsuperscript{8,9,11,12,14}

To minimize blood loss during sampling, Edwards’ VAMP closed blood sampling systems incorporate an in-line reservoir that allows clinicians to reinfuse rather than discard the clearing volume. Needle-less VAMP systems are designed to reduce infection, needle sticks, and blood waste associated with conventional blood sampling methods.\textsuperscript{3,12–14}

**Closed Blood Sampling is an evidence–based solution**
Closed blood sampling systems may reduce blood loss, iatrogenic anemia, and reduce transfusion needs and related complication compared to conventional blood sampling.\textsuperscript{8–11} Clinical studies show lower contamination risk may present the potential for reduction in catheter-related bloodstream infections (CRBSI).\textsuperscript{12,14}

Discarded blood can account for 18–30\% of total daily blood drawn from critically ill patients.\textsuperscript{8}

12+ randomized controlled trials demonstrate benefits of closed blood sampling\textsuperscript{1–12}
VAMP systems are designed to reduce infection and blood waste.  

VAMP Adult System  
Optimized for patients in critical care settings  
- 5 cc reservoir designed for safe and convenient blood sampling in environments where close proximity to patient is desired  
- Versatile design can be pole mounted on a backplate or used as an arm mount  

VAMP Plus System  
Allows sampling flexibility between surgery and intensive care  
- Large 12 cc reservoir provides optimized clearing volume  
- Choice of one or two Z-site sample sites for flexibility in perioperative settings  
- Convenient one-handed operation simplifies sampling and clearing volume reinfusion  
- Mounts on IV pole with Edwards' TruClip holder next to pressure transducer  

VAMP Jr. System  
Offers safety and accuracy for your smallest patients  
- Smaller 3 cc reservoir optimizes clearing volumes, providing undiluted, accurate blood samples  
- Designed to meet the volume-critical requirements of pediatric patients  
- Graduated “cc” markings aid in selecting appropriate clearing volume for each patient  
- Special contamination hood helps reduce infection risk  

VAMP System Features  
- VAMP systems are designed to be used with disposable pressure transducers and for connection to central line and arterial catheters.  
- Z-site self-sealing sample port reduces blood buildup for collection of undiluted samples and improves infection control compared to traditional sampling methods.  
- Internal reservoir contamination shield adds an extra barrier against infection.  
- Blunt, needle-less cannula eliminates accidental needlesticks.  
- In-line reservoirs in various sizes allow for reliable samples for your adult and pediatric patients.  
- Variety of tubing lengths are designed to meet diverse clinical needs and accommodate patient size requirements.
Compatibility and clarity in closed blood sampling.

VAMP systems can be paired with Edwards’ TruWave disposable pressure transducers to create a single integrated pressure monitoring and closed blood sampling system.

VAMP systems are compatible with Edwards’ advanced hemodynamic monitoring solutions.

<table>
<thead>
<tr>
<th>VAMP Adult System</th>
<th>VAMP Jr. System</th>
</tr>
</thead>
<tbody>
<tr>
<td>6’ sampling kit, sample site, reservoir, two shut-off valves</td>
<td>2' proximal, 4’ distal for neonatal application</td>
</tr>
<tr>
<td>20’ sampling kit, sample site, arm reservoir</td>
<td>3’ proximal, 3’ distal for pediatric application</td>
</tr>
<tr>
<td>60’ sampling kit, sample site, arm reservoir</td>
<td>10’ proximal, 4’ distal for pediatric application</td>
</tr>
<tr>
<td>72’ sampling kit, sample site, arm reservoir</td>
<td>19’ proximal, 29’ distal for pediatric application</td>
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<tr>
<td>84’ sampling kit, sample site, arm reservoir</td>
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<tr>
<td>60’ sampling kit, sample site, pole-mount reservoir</td>
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<tr>
<td>72’ sampling kit, sample site, pole-mount reservoir</td>
<td></td>
</tr>
<tr>
<td>84’ sampling kit, sample site, pole-mount reservoir</td>
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<tr>
<td>Anesthesia kit, 68’ sampling kit, male/female connector</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>VAMP Plus System</th>
<th>VAMP System Accessories</th>
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</thead>
<tbody>
<tr>
<td>Reservoir with 60” patient tubing, one sample site located 55” from patient</td>
<td>Needle-less cannula</td>
</tr>
<tr>
<td>Reservoir with 60” patient tubing, two sample sites located 13” and 55” from patient</td>
<td>3cc heparinized ABG syringe with needle-less cannula</td>
</tr>
<tr>
<td></td>
<td>Blood transfer unit (BTU) for sample transfer to vacuum tubes</td>
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<td></td>
<td>Direct draw unit for direct line blood sampling</td>
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</tbody>
</table>

Contact your Edwards representative for specific model numbers.

Know more. Know now.

Edwards Lifesciences offers educational resources to help your hospital implement effective blood management through Closed Blood Sampling. Visit Edwards.com/CBS

To incorporate VAMP closed blood sampling systems in your OR and ICU, contact your Edwards representative or visit Edwards.com/VAMP

For over 40 years, Edwards Lifesciences has been helping you make proactive clinical decisions to advance the care of surgical and critical care patients.
Through ongoing collaboration with you, ongoing education and our never-ending quest for advancement, Edwards develops solutions that provide the clarity to make proactive clinical decisions.

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Edwards Lifesciences devices placed on the European market meeting the essential requirements referred to in Article 3 of the Medical Device Directive 92/42/EEC bear the CE marking of conformity.

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VAMP Systems
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References