








Rapid results for critical decision-making in cardiac surgery

Cardiac surgery demands accurate, rapid whole blood testing to inform patient treatment decisions. Our Acute Care Diagnostics portfolio provides a comprehensive solution delivering **fast, actionable results** to aid in goal-directed treatment decisions.

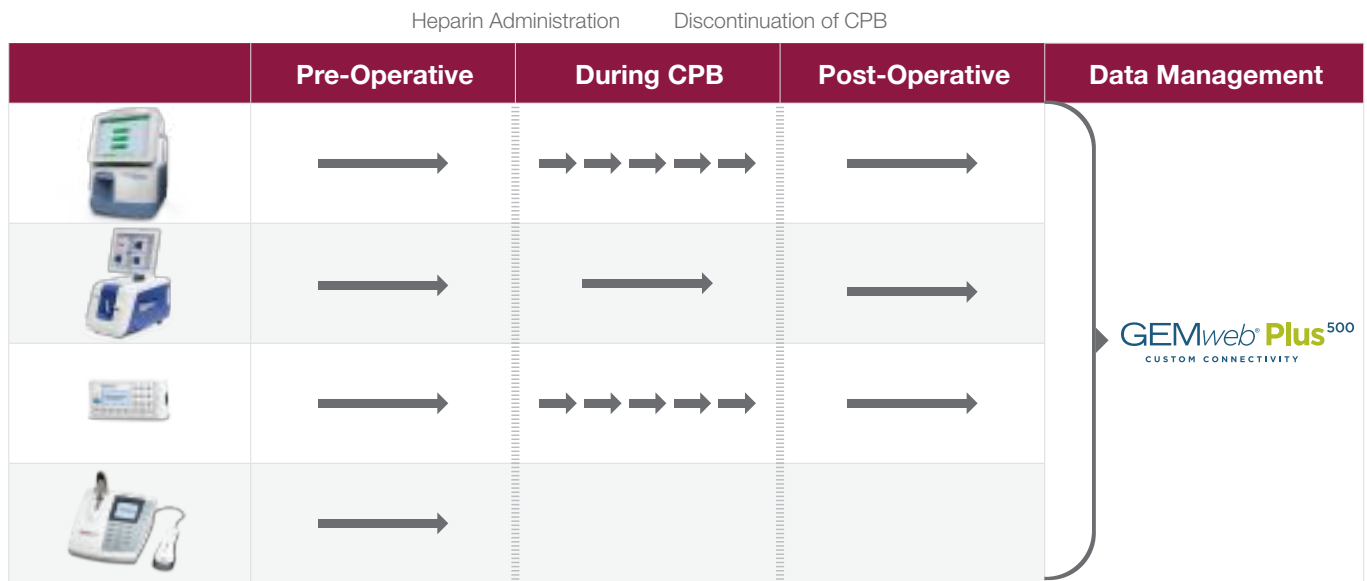
Fast, actionable results in seconds/minutes¹

IL analyzers simplify point-of-care testing and ensure reliable results—expediting turnaround time and improving patient care.

Analizers	Menu	Analysis Time	Data Management
 <p>GEM[®]family</p>	Blood Gas, Electrolytes, Metabolites, full CO-Oximetry panel	45 seconds	
 <p>ROTEM[®] sigma</p>	Viscoelastic testing (EXTEM, FIBTEM, INTEM, HEPTEM, APTM)	12 minutes	
 <p>Hemochron[®] SIGNATURE ELITE</p>	ACT+	4.5 minutes	
 <p>VerifyNow[®]</p>	PRUtest (P2Y12 inhibitors), Aspirin Test	3 minutes	

* Basic connectivity only.

Example of rapid whole blood testing for each procedural stage during cardiopulmonary bypass (CPB)



Improve clinical outcomes

Studies have demonstrated that IL systems inform individualized, goal-directed treatment decisions and improve clinical outcomes:

- May reduce inappropriate transfusions in major surgery and traumatic bleeding²⁻⁵
- May assist in preventing clinical complications (e.g., infection, acute myocardial infarction, stroke, acute renal failure) and re-operations³⁻⁹
- May reduce wait time prior to surgery⁴
- May reduce risk of medical errors due to pre-analytical issues¹⁰

Improve operational efficiencies

IL cartridge-based systems and data management solutions, designed for point-of-care testing, provide time and cost efficiencies:

- Cartridges can be stored at room temperature
- Intelligent Quality Management (iQM/iQM2) offers continuous and automated error detection, correction and documentation
- GEMweb Plus Custom Connectivity integrates data into electronic health records (EHR) and supports accreditation
- ROTEM *live* offers remote, real-time TEMogram results for faster clinical decisions

Improved patient outcomes with fast, actionable results for cardiac surgery— with comprehensive and integrated IL Acute Care Diagnostics.

References

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3. Leahy M, Hofmann A, *et al.* Improved outcomes and reduced costs associated with a health-system-wide patient blood management program: a retrospective observational study in four major adult tertiary-care hospitals. *Transfusion.* 2017;57(6):1347–58.
4. Brizzio ME, *et al.* Use of an objective tool to assess platelet inhibition prior to off-pump coronary surgery to reduce blood usage. *J Invasive Cardiol.* 2012;24:49–52.
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6. Weber CF, *et al.* Point-of-care testing: a prospective, randomized clinical trial of efficacy in coagulopathic cardiac surgery patients. *Anesthesiol.* 2012;117(3):531–47.
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8. Nakayama Y, *et al.* Thromboelastometry-guided intraoperative haemostatic management reduces bleeding and red cell transfusion after paediatric cardiac surgery. *Br J Anaesth.* 2015;114(1):91–102.
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10. Toffaletti JG, McDonnell EH, *et al.* Validation of Quality Assessment System for Blood Gas and Electrolyte Testing. *Clin Chim Acta.* 2007;382:65–70.

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