

Integrative solutions at the speed of life



Acute Care Diagnostics

# Acute Care Diagnostics: When care can't wait.

From the Emergency Department to the Intensive Care Unit, acute care requires timely, decisive action, based on accurate diagnostic assessment. That is why thousands of hospitals trust Acute Care Diagnostics solutions from Instrumentation Laboratory (IL). Our **Blood Gas and Whole Blood Hemostasis** products deliver quality results at the point of care, quickly and simply for utmost efficiency and optimal patient care.

GEM<sup>PREMIER</sup> 5000 | iQM<sup>2</sup>

GEM<sup>PREMIER</sup> 4000  
with iQM

GEM<sup>PREMIER</sup> 3500  
with iQM

GEMweb<sup>Plus</sup> 500  
CUSTOM CONNECTIVITY



**GEM Premier family of Blood Gas systems** simplifies operations at the point of care by automating key labor- and skill-intensive tasks with Intelligent Quality Management (iQM/iQM2) and maintenance-free all-in-one PAK cartridges.

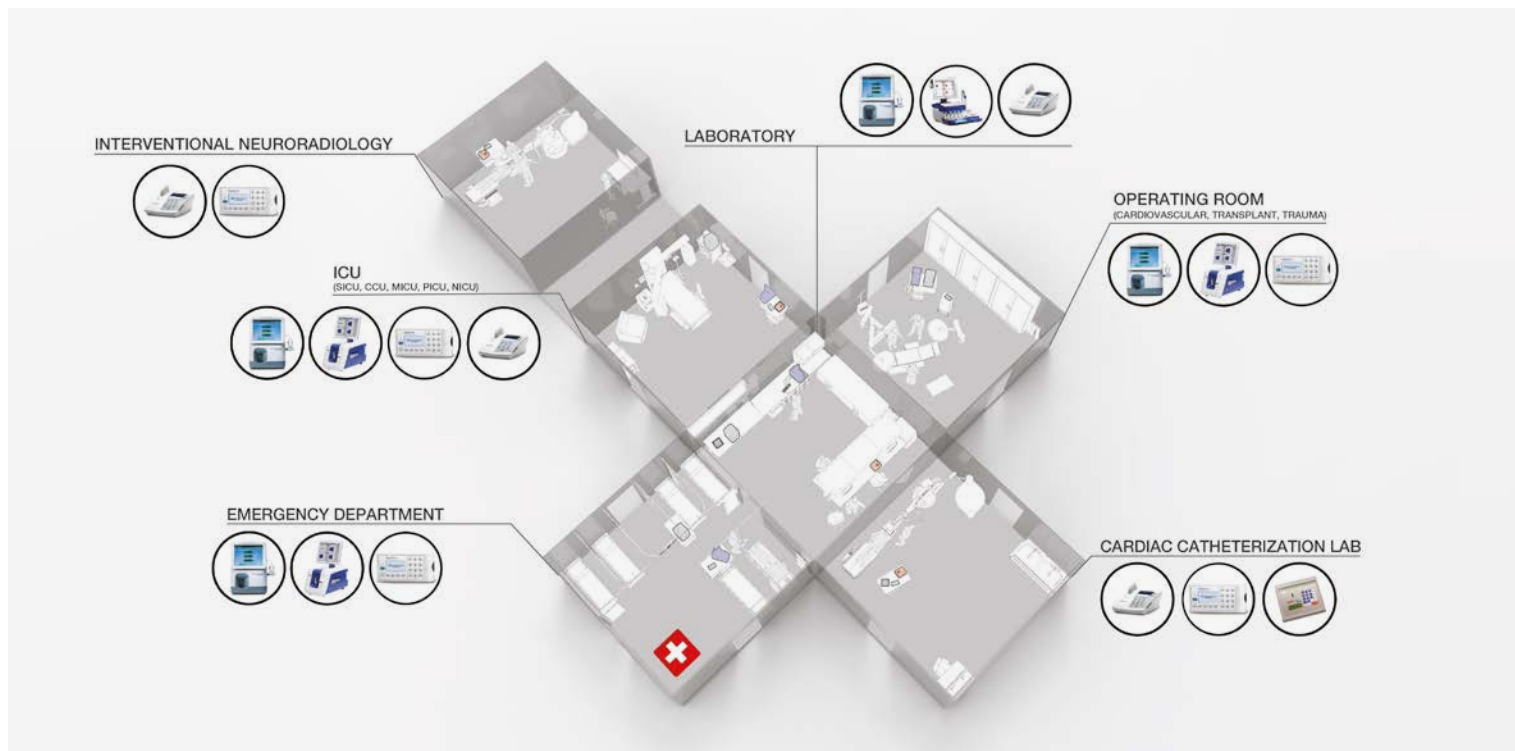
**GEMweb Plus 500 Custom Connectivity** combines control of information, analyzers and operators into one intuitive data information management system.



**ROTEM, Hemochron and VerifyNow** systems are designed to help clinicians make key transfusion, bleeding risk and anticoagulant dose adjustment decisions during surgical and interventional procedures.

\* Not available in all countries. | † Not 510(k) cleared, not available in all countries.

# Diagnostic solutions across the continuum of acute care settings\*



\* Based upon ordering department location

## Quality, simplicity and efficiency from the lab to the point of care

- Intensive Care Units
- Cardiovascular, Trauma and Transplant Operating Rooms
- Cardiac Catheterization Lab
- Emergency Department
- Interventional Neuroradiology Suite

IL is the only IVD company that can provide a comprehensive set of diagnostic tests in perioperative hospital settings.

## Designed for point-of-care testing

- Cartridge-based systems facilitate and expedite use at the point of care
- Device and data integration within hospital departments and networks enable management and ensure quality

**IL Acute Care Diagnostics solutions help improve patient care and experience, while reducing cost of care.**

## Blood Gas Testing Family

Blood gas, electrolyte and metabolite measurement for rapid assessment of respiratory and metabolic status and electrolyte balance. Plus, according to clinical practice guidelines from the AABB, tHb measurement guides red blood cell (RBC) transfusion decisions.<sup>1</sup> Systems incorporate iQM/iQM2 for real-time quality assurance.

**GEM<sup>®</sup>family**

## Whole Blood Hemostasis Testing and CO-Oximetry

Viscoelastic testing for the rapid evaluation of coagulopathies at the point of care, to optimize patient treatment decisions during major surgeries and in cases of traumatic bleeding

**ROTEM<sup>®</sup>**  
*sigma*

ACT testing for anticoagulant dose optimization at the point of care, during cardiovascular procedures and extracorporeal life support

**Hemochron<sup>®</sup>**  
SIGNATURE ELITE

Platelet function testing for individualized antiplatelet therapy management at the point of care, before and after cardiovascular and neurointerventional procedures

**VerifyNow<sup>®</sup>**

Whole blood CO-Oximetry for rapid, accurate assessment of oxygenation status at the point of care

**Avoximeter<sup>®</sup>4000**

**Acute Care Diagnostics provides innovative solutions to integrate and simplify point-of-care testing—at every point of patient care.**

# Integrative solutions to help meet hospital-wide goals

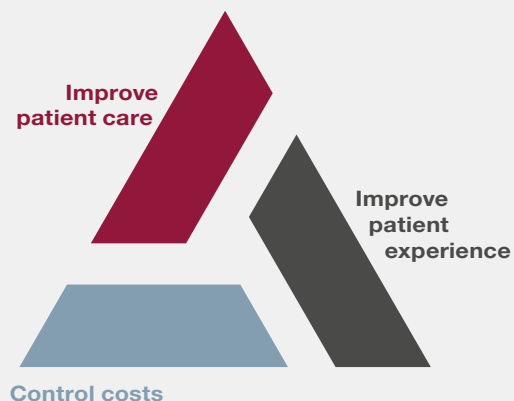
Today, many hospitals are challenged to improve the quality of patient care and experience, while controlling costs. IL Acute Care Diagnostics can help achieve these goals when used in conjunction with defined clinical information, processes and procedures.

## Solutions to improve patient care and experience

- Expedite turnaround time for rapid clinical decisions by streamlining testing processes at the point of care<sup>2</sup>
- Reduce complications during and post-intervention through rapid evaluation of coagulopathy and platelet function<sup>3,4,5</sup>
- Reduce risk of medical errors due to pre-analytical issues<sup>6</sup>
- Minimize inappropriate transfusions in major surgery and traumatic bleeding<sup>1,3,7</sup>

## Solutions to control costs

- Increase workflow efficiency and time dedicated to patient care with comprehensive solutions designed for the point of care
- Reduce length of stay by enabling individualized, guided patient treatment
- Optimize patient management and treatment by reducing inappropriate blood transfusions, potentially preventable complications, unnecessary procedures and treatment changes



**Acute Care Diagnostics solutions can help your institution enhance care while controlling costs.**

## Data Management

**GEMweb Plus 500 Custom Connectivity** provides customizable connectivity and automated functionality for complete control of information, analyzers, operators and data to enable:

- Laboratory oversight
- Regulatory compliance
- Accreditation management



### References

1. Carson JL, *et al.* Clinical Transfusion Medicine Committee of the AABB. Red blood cell transfusion: a clinical practice guideline from the AABB. *Ann Intern Med.* 2012;157(1):49–58.
2. IL Acute Care Diagnostics product operators manuals and product literature
3. Leahy M, *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. Meybohm P, *et al.* Patient Blood Management is Associated With a Substantial Reduction of Red Blood Cell Utilization and Safe for Patient's Outcome: A Prospective, Multicenter Cohort Study With a Noninferiority Design. *Ann Surg.* 2016;264(2):203–11.
5. Brizzio ME, *et al.* Use of an Objective Tool to Assess Platelet Inhibition Prior to Off-Pump Coronary Surgery to Reduce Blood Usage. *Journal of Invasive Cardiology.* 2012;24:49–52.
6. Toffaletti JG, *et al.* Validation of Quality Assessment System for Blood Gas and Electrolyte Testing. *ClinChimActa.* 2007;382(1-2):65–70.
7. Craver C. *et al.* Measurement of Total Hemoglobin Reduces Red Cell Transfusion in Hospitalized Patients Undergoing Cardiac Surgery. *Perfusion.* 2018;33(1)44–52.

### Werfen

#### Corporate Headquarters

Plaza de Europa, 21–23  
08908 L'Hospitalet de Llobregat  
Barcelona, Spain  
+34-93-4010101  
werfen.com

#### Instrumentation Laboratory Headquarters

180 Hartwell Road  
Bedford, MA 01730 USA  
+1-781-861-0710  
instrumentationlaboratory.com

#### Worldwide Locations

##### The Americas

**Brazil**  
São Paulo  
+55-11-4622-7878  
br.werfen.com

**Canada**  
Richmond Hill, ON  
+1-800-552-2025 x6115  
instrumentationlaboratory.com

**Colombia**  
Bogotá  
+57-15-221-052

**Mexico**  
Mexico City  
+52-55-5262-1760  
mx.werfen.com

**Uruguay**  
Montevideo  
+5982-481-81-33

**USA**  
Bedford, MA  
+1-781-861-0710  
instrumentationlaboratory.com

##### Asia-Pacific

**Australia**  
Sydney  
+61-02-9098-0200  
au.werfen.com

**China**  
Beijing  
+86-10-59756055  
Hong Kong  
+852-2792-7773  
Shanghai  
+86-21-66308671  
cn.werfen.com

**India**  
New Delhi  
+91-490-29-550  
in.werfen.com

**Japan**  
Tokyo  
+81-3-5419-1301  
jp.werfen.com

**Korea**  
Seoul  
+82-1899-9217  
kr.werfen.com

**Thailand**  
Bangkok  
+66-271-226-28/9

##### Europe

**Austria**  
Vienna  
+43-1-256-58-000  
at.werfen.com

**Belgium**  
Brussels  
+32-2-7252052  
benelux.werfen.com

**Czech Republic**  
Prague  
+420-246-090-931  
cz.werfen.com

**France**  
Paris  
+33-182-30-86-00  
fr.werfen.com

**Germany**  
Munich  
+49-89-909070  
de.werfen.com

**Hungary**  
Budapest  
+36-1-882-73-10  
hu.werfen.com

**Italy**  
Milan  
+39-02-25221  
it.werfen.com

**Lithuania**  
Kaunas  
+370-37-313157  
lt.werfen.com

**The Netherlands**  
Breda  
+31-76-5480100  
benelux.werfen.com

**Poland**  
Warsaw  
+48-22-336-18-00

**Portugal**  
Lisbon  
+351-214247312  
pt.werfen.com

**Russia**  
Moscow  
+7-499-124-45-59  
ru.ilwerfen.com

**Spain**  
Barcelona  
+34-902-20-30-90  
es.werfen.com

**UK**  
Warrington, England  
+44-1925-810141  
uk.werfen.com

**For all other countries** visit  
international.werfen.com

The Instrumentation Laboratory logo, GEM, Premier, GEMweb, iQM, Hemochron, VerifyNow, Avoximeter and ROTEM are trademarks of Instrumentation Laboratory Company and/or one of its subsidiaries or parent companies and may be registered in the United States Patent and Trademark Office and in other jurisdictions. All other product names, company names, marks, logos and symbols are trademarks of their respective owners.

©2018 Instrumentation Laboratory. All rights reserved.



For more information, contact your local Werfen sales representative or distributor.