

ED

Empower your ED with certainty

Get the critical information you need fast — in the ED

THE BLOOD GAS EXPERTS

Radiometer is no stranger to acute care diagnostics. When the polio epidemic swept across Europe in the early 1950s, many children were at risk of respiratory failure, which led to the development of the first blood gas analyzer by Radiometer in 1954. Since then, Radiometer has specialized in acute care diagnostics, delivering connected point-of-care-testing solutions for the ICU, NICU, and ED in hospitals in more than 130 countries.



Speed up diagnosis and treatment with point-of-care testing

As an ED professional, you deal with uncertainty every day. Patients with diffuse symptoms require various tests, which can result in long waiting times for lab results causing overcrowding and potentially delaying timely care for your most critical patients [1].

Point-of-care testing (POCT) can be an asset in the emergency department, helping to speed up diagnosis and treatment processes while reducing contingencies and process costs [2,3].



With the ABL90 FLEX PLUS analyzer, we can now measure creatinine and urea levels and rapidly assess patients' renal function."

Prof. Dorota Zysko,
ED Director, University Hospital,
Wroclaw, Poland

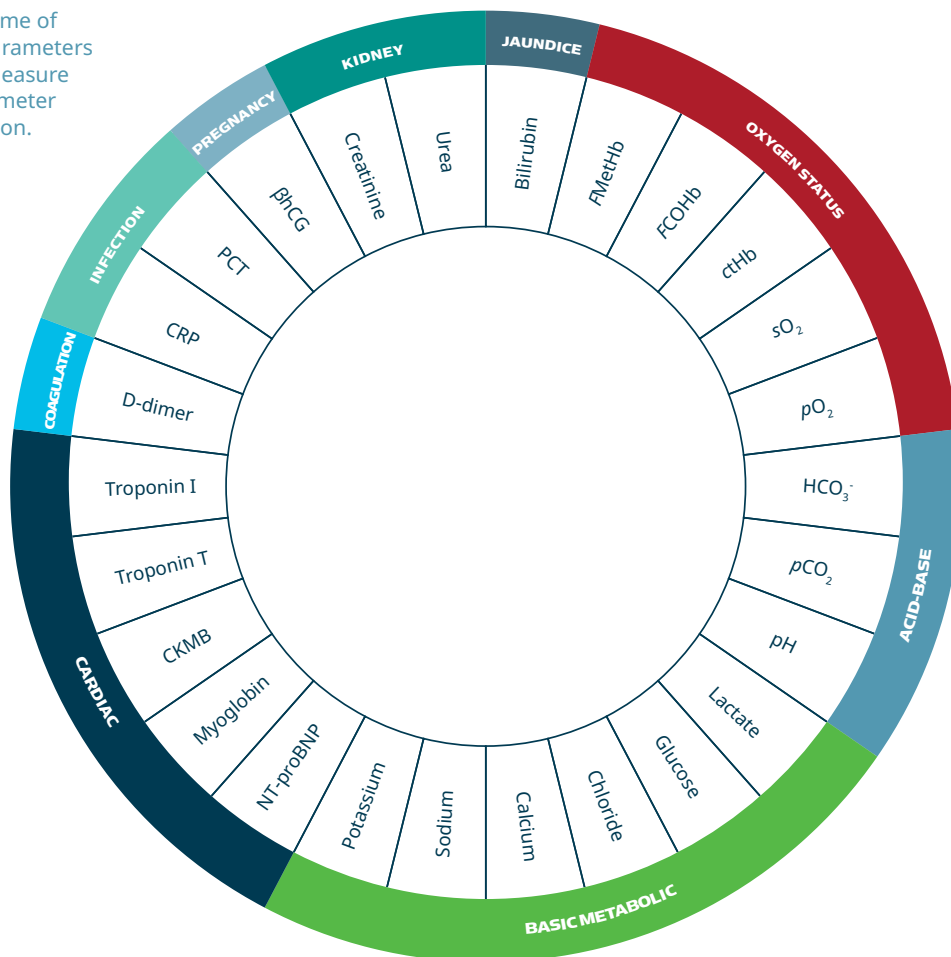
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1. Stockfisch V. POCT in emergency rooms: One key factor for process streamlining with Lean Management. www.acutecaretesting.org October 2014.
 2. Larsson A *et al.* The state of point-of-care testing: a European perspective. *Ups J Med Sci* 2015; 120,1: 1-10.
 3. Von Eiff W *et al.* POCT-Management. Klinische und Ökonomische Effekte. Heidelberg: Medhochsweiverlag 2013; 189-192.

Get reliable results on critical parameters—in minutes

Making time-critical decisions regarding patient treatment is crucial to an emergency department. With the Radiometer POCT solution, a broad panel of critical tests can support you in making timely diagnoses for potentially life-threatening illnesses requiring immediate care.

Each device functions independently or can connect to the lab and hospital IT systems when using AQUIRE, the Radiometer POC IT solution. AQUIRE POC IT solution delivers IT connectivity at the point of care, helping you get the right results at the right place. This supports you in the management of sample flow, patient data accuracy and maintenance of POC analyzers remotely.

Overview of some of the relevant parameters that you can measure with the Radiometer ED POCT solution.



Blood gas results from 19 parameters in just
35 seconds
from only 65 microliters of blood

Biomarker results in just
11-21 mins
from 2 milliliters of whole blood



Get the information you need to make critical decisions fast

Whether you send the patient home or on for further treatment, ED point-of-care testing speeds up turnaround time and helps you accelerate patient flow [2].

Assess kidney function

Creatinine results at the point of care can help you identify patients at risk of acute kidney injury (AKI) and quickly assess kidney status before CT or MRI scans to determine the risk of contrast-induced nephropathy [4]. Additionally, creatinine and urea results are valuable for evaluating dehydration and gastrointestinal bleeding [5,6]. Monitoring kidney function also plays a crucial role in optimizing medication dosing to prevent toxicity, ensuring safer and more effective treatment [7].

Make timely diagnoses of MI, heart failure and other critical conditions

The ability to rule in or rule out critical conditions without waiting for lab results can help mitigate overcrowding in the ED [8]. With reliable results from point-of-care analyzers in the ED, you can make timely diagnoses of conditions like myocardial infarction, heart failure, respiratory failure, pulmonary embolism, and sepsis — without waiting for lab results.

By measuring β hCG at the point of care, you can also determine if the patient is pregnant and thereby avoid medical procedures that may potentially harm the fetus.



The crucial thing is that we don't waste time."

Dr. Oppert, Head of the Intensive Care and Emergency Medicine departments at Klinikum Ernst von Bergmann, Germany

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4. Salvagno *et al.* Analytical evaluation of Radiometer ABL90 FLEX PLUS enzymatic creatinine assay. *Journal of Laboratory and Precision Medicine* 2019; Vol. 4, August 06:1-5.
 5. Higgins C. Urea and the clinical value of measuring blood urea concentration. www.acutecaretesting.org August 2016.
 6. Higgins C. Urea and creatinine concentration, the urea: creatinine ratio. www.acutecaretesting.org October 2016.
 7. *Urol Nephrol* 54, 157–163 (2022). <https://doi.org/10.1007/s11255-021-02834-6>.
 8. St. John & Price. Benefits of point-of-care testing in the Emergency Department. www.acutecaretesting.org March 2018.

Use connected, convenient devices

From easy to use blood gas and immunoassay analyzers to a variety of syringes and device-to-lab connectivity, the comprehensive Radiometer ED POCT solution supports you in making timely clinical decisions.



BLOOD GAS TESTING

ABL90 FLEX PLUS BLOOD GAS ANALYZER

Reliable results on 19 critical parameters from one blood sample of only 65 µL in 35 seconds. Automatic mixing unit.



SAMPLERS

safePICO SYRINGES

Blood gas syringes designed for homogeneous blood samples.



POC IT SOLUTION

AQUIRE

Device-to-lab connectivity for lab management of POCT devices and operators 24/7. Automatic notifications and remote maintenance.



BIOMARKER TESTING

AQT90 FLEX IMMUNOASSAY ANALYZER

Closed tube system with minimal handling and fast turnaround time on results of 11-21 minutes.



Patient safety is at the center of everything we do and determines the procedures, our activities and all other actions performed in the ED."

Axel Plessmann,
ED Director DRK-Krankenhaus Sömmerda,
Germany

Partner with the blood gas testing specialists

When you choose Radiometer, you tap into more than fifty years of acute care diagnostics experience. You get access to services, support, and knowledge including:

- ▣ Radiometer LIVE — a customer care program with services, tools, and educational resources to support you throughout the lifetime of your Radiometer solution
- ▣ Installation of your point-of-care analyzers with on-site consultation
- ▣ Staff training with a customizable high-impact learning program
- ▣ MyRadiometer — a dedicated customer portal with an extensive library of information on our product portfolio



SIX REASONS TO CHOOSE A RADIOMETER ED POINT-OF-CARE-TESTING SOLUTION

- 1 Blood gas test results on 19 parameters in 35 seconds, including Creatinine, Urea, and Lactate
- 2 Immunoassay test results on 9 biomarkers in 11-21 minutes*, including TnI, D-Dimer, β hCG, NT-proBNP, and PCT
- 3 Automatic blood sample mixing
- 4 No manual pipetting or sample preparation
- 5 Compact, easy to use analyzers with built-in QC
- 6 24/7 connectivity to HIS/LIS with AQUIRE, the Radiometer POC IT solution

*Depending on the biomarker tested

Whatever comes next, we make sure life comes first

Radiometer products and solutions are used in hospitals, clinics, and laboratories in over 130 countries, providing information on critical parameters in acute care diagnostics. Through connected solutions, expert knowledge, and trusted partnership, we help health care professionals make diagnostic decisions to improve patient care.

Contact us today.

Visit our website to arrange for a demo.

www.radiometer.com/ED

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