

# **Partner For Life**

Helping you deliver neonatal proactive care with confidence

### **Partners in care**

### Supporting you to nurture with nuance

### Save blood and support life

### When every drop of blood counts

Babies' first hours and days can be challenging. As health care providers dedicated to neonates in need, you confront this truth more than most. We're grateful for your expertise and your commitment to improving patient outcomes.

#### Little things can make a big difference.

A preterm baby born weighing just 500 grams has an estimated total blood volume of **less than 50 ml.** 

#### Why preserve patient blood?

Patient Blood Management is integral to neonatal care. Blood sampling is a significant contributor to neonatal anemia in preterm infants and can **deplete 30-60% of the total neonatal blood volume** in the first weeks of life.

Research shows a direct association between the number of neonatal blood draws to the need of blood transfusions which bring their own inherent risks.

#### Why reduce dependency on blood draws?

Preterm babies endure an average of **50 painful procedures during their first four weeks of life.**Multiple studies have demonstrated that a higher number of painful procedures in neonates is linked to impaired brain growth.

At Radiometer, our goal is to support you with the critical information you need in acute care diagnostics to put #LifeFirst.

Since 1954, we've collaborated with customers and partners to focus on improving patient care. We are a diverse team of more than 4,400 associates located in more than 120 countries. Together, we support your peers around the world.

If you're striving to improve patient outcomes and neonates' quality of life, we've got your back.

Feel empowered to deliver proactive care with confidence, with Radiometer as your **#PartnerForLife**.

We've integrated clinical insights with experts' experience, to create a unique point-of-care testing (POCT) solution that supports you in making clinical decisions: trusted blood gas results as well as real-time transcutaneous oxygen  $(tcpO_2)$  and carbon dioxide  $(tcpCO_2)$  monitoring, reducing any unnecessary handling of fragile patients.

Together, we can revolutionize neonatal care, creating a future where every infant has the opportunity to flourish.

### How the Radiometer NICU Solution fits your workflow

Comprehensive oxygen monitoring

Complementing blood gases with continuous

conserve patient blood and minimize invasive

Transcutaneous monitoring of carbon dioxide

(tcpCO<sub>2</sub>) has been shown to exhibit a strong

blood draws, allowing for proactive patient care.

correlation with arterial values. This holds true for

babies with a low birth weight (<1000 grams) as well

as those born extremely premature (gestational age

Our NICU Solution includes the ABL90 FLEX PLUS

blood gas analyzer, *safe*CLINITUBES capillary

cohesively instill confidence, trust, and security in

making life-altering clinical care decisions within

tubes, and the TCM5 FLEX monitor which

high-pressure environments.

tcpO<sub>2</sub> and tcpCO<sub>2</sub> monitoring can further

supports optimal ventilation

#### Balancing ventilation and oxygenation

Monitoring babies' oxygen and carbon dioxide levels is an intricate art.

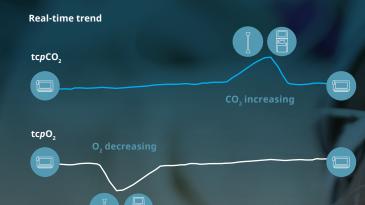








While regular blood gas analyses can provide us with the most precise measures of O<sub>2</sub> and CO<sub>2</sub>, the process is invasive and can cause pain to the neonate. Naturally, a blood gas only reflects oxygenation and ventilation at a single point in time, and not the intermittent changes in between.



When change is inevitable, we're proud to be a trusted Partner For Life

### Safe, Simple, Silent

Limiting invasive procedures helps reduce potential stress, pain, and risk of infection, without compromising standards of care.

#### Continuous, non-invasive monitoring

Real-time data provides full transparency on patients' status between blood draws. Equipped with these insights, you can make clinical decisions without having to wait for results from the central laboratory.

### Easy to learn how to use Special NICU mode

A plug and play solution that monitors your patients' every **minute** safely and silently. With built-in tutorials, the color touchscreen offers a clear view of measured parameters.

 $tcpO_2 \mid tcpCO_2$ 



Predefined combinations of time and temperature and system defined limits help to preserve patients' skin integrity.

#### Seamless connectivity and integrated into your workflow

Radiometer's TCM5 FLEX connects to a wide range of patient monitoring systems, data management systems, as well as ventilators. It can be effectively utilized across different modes of ventilation in the NICU, including mechanical ventilation, high-frequency oscillatory ventilation (HFOV), high-flow nasal cannula (HFNC), and CPAP. This would allow to titrate ventilator settings without unnecessary blood sampling.



#### Gentle sensor promote patient comfort o

TCM5 FLEX

The TCM5 FLEX operates by way of gentle sensor with a variety of fixation options designed for sensitive skin, helping you improve patient comfort.

And with automatic sensor calibration, your sensor is always ready for use.



Pioneering neonatal care by saving blood and reducing pain with real time  $tcpO_2$  and  $tcpCO_3$  monitoring.

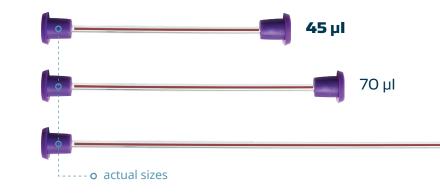
### Reliable results from less than two drops of blood

#### Capillary tubes designed for neonatal blood gas testing

safeCLINITUBES capillary tubes are made of plastic, not glass. Compared to other methods of blood sampling that require higher volume, capillary blood sampling reduces the risk of anemia in NICU patients and avoids the effects of blood volume reduction.

#### Why use *safe*CLINITUBES?

- Less invasive than venipuncture
- Require smaller blood volumes than venipuncture
- Reduce risks of contact with patient blood
- Minimize the risk of preanalytical errors such as clot formation



### Keep your setup running smoothly with Connect & Care



safeCLINITUBES

Customize an integrated POC IT and services solution to connect your people, medical devices, and data. Connect & Care offers you sustainable support from certified specialists, as well as a range of services for the lifetime of your solution. Practically, this means you'll be able to receive the support you need, when you need it, placing you a step ahead to put life first.

We offer training and technical support whenever you need a helping hand. We go beyond practical support, offering you peace of mind, and positive experiences for patients and their loved ones.

## Lab-quality results at the point-of-care



#### Because speed and efficiency matter

Fast, compact, and intelligent, the ABL90 FLEX PLUS blood gas analyzer delivers comprehensive insights from just 45 µL, supporting you to act quickly and confidently in demanding situations.

### MicroMode designed for neonates

- 60 seconds on just 45 μL for 17 parameters
- 35 seconds on 65 μL for 19 parameters incl. Crea/Urea

#### Monitor neonatal Jaundice

ctBil helps identify and monitor the development of hyperbilirubinemia.

#### Automatic quality management (AQM)

Real time quality assurance helps ensure reliable



**Detection** • Correction •

### Advanced clot detection o

Micro and macro clots are detected and removed so as not to affect results.

ABL90 FLEX PLUS

#### Reliable test results

Make informed decisions with comprehensive data on up to 19 critical parameters.

#### Parameters measured

pH | pCO<sub>2</sub> | pO<sub>2</sub> | cGlu | cLac | cCrea | cUrea cCa<sup>2+</sup> | cCl<sup>-</sup> | cK<sup>+</sup> | cNa<sup>+</sup> | FCOHb | ctBil | ctHb FHbF | FHHb | FMetHb | sO<sub>2</sub> | FO<sub>2</sub>Hb







# Whatever comes next, we make sure life comes first.

Radiometer solutions are used in hospitals, clinics, and laboratories in over 120 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.



I'm very happy to use Radiometer solutions, I'm inclined to the Radiometer Solution because it's reliable and overall, very accurate. Here at A. Béclère, the devices are close to the patients' beds, so it's a POC solution that's ready at a moment's notice."

**Daniele De Luca**, Full Professor of Neonatology and Division Chief, Antoine Béclère Hospital, Paris, France



www.radiometer.com/NICU

Data subject to change without notice.

