

# Every drop counts

In preterm infants, postnatal blood sampling can result in a

**58%** depletion of blood volume

in the first two weeks.<sup>1</sup>

**80%** of preterm infants receive blood transfusions in their first month.<sup>2</sup>



**48.7%**

of sampling-related blood loss in premature infants is for blood gas analyses.<sup>1</sup>

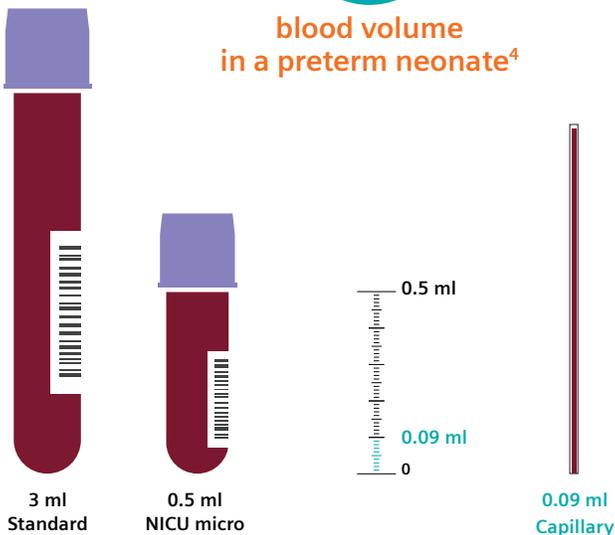
Modern handheld point-of-care analyzers need as little as 0.09 ml for 13 different analytes.<sup>3</sup>



Total blood volume: 80-115 ml/kg<sup>4</sup>

A 10 ml blood sample may represent as much as **10%** of total

blood volume in a preterm neonate<sup>4</sup>



AARC provides clinical practice guidelines on capillary sampling for blood gas assessment in neonates.<sup>5</sup>



1 Hellström W, Forssell L, Morsing E, Sävman K, Ley D. Neonatal clinical blood sampling led to major blood loss and was associated with bronchopulmonary dysplasia. *Acta Paediatr.* 2020 Apr;109(4):679-687.  
2 Holzapfel LF, Rysavy MA, Bell EF. Red Blood Cell Transfusion Thresholds for Anemia of Prematurity. *Neoreviews.* 2023 Jun 1;24(6):e370-e376.  
3 epoc System Manual. 51015950 Rev.: 04. 2023.  
4 Proytcheva MA. Issues in neonatal cellular analysis. *Am J Clin Path.* 2009;131(4):560-573.  
5 Evans DL, Volsko TA, Capellari E, et al. AARC clinical practice guidelines: capillary blood gas sampling for neonatal and pediatric patients. *Respir Care.* 2022 Sep;67(9):1190-1204.